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# Cover Page

**Order ID :** Q3274

**Project ID :** ANN

**Client :** G Environmental

| Lab Sample Number | Client Sample Number |
|---|---|
| Q3274-01 | MW4 |
| Q3274-02 | MW5 |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : ________________________ Date: 10/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** Q3274

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page) | ✓ |
| Check chain-of-custody for proper relinquish/return of samples | ✓ |
| Is the chain of custody signed and complete | ✓ |
| Check internal chain-of-custody for proper relinquish/return of samples /sample extracts | ✓ |
| Collect information for each project id from server. Were all requirements followed | ✓ |
| **COVER PAGE:** | |
| Do numbers of samples correspond to the number of samples in the Chain of Custody on login page | ✓ |
| Do lab numbers and client Ids on cover page agree with the Chain of Custody | ✓ |
| **CHAIN OF CUSTODY:** | |
| Do requested analyses on Chain of Custody agree with form I results | ✓ |
| Do requested analyses on Chain of Custody agree with the log-in page | ✓ |
| Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody | ✓ |
| Were the samples received within hold time | ✓ |
| Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle | ✓ |
| **ANALYTICAL:** | |
| Was method requirement followed? | ✓ |
| Was client requirement followed? | ✓ |
| Does the case narrative summarize all QC failure? | ✓ |
| All runlogs and manual integration are reviewed for requirements | ✓ |
| All manual calculations and /or hand notations verified | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 10/10/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3274 | **OrderDate:** | 10/2/2025 3:37:00 PM |
| **Client:** | G Environmental | **Project:** | ANN |
| **Contact:** | Gary Landis | **Location:** | D41,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3274-01** | **MW4** | **Water** | | | **10/01/25** | | | **10/02/25** |
| | | | SVOCMS Group1 | 8270E | | 10/03/25 | 10/03/25 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q3274

**Client:** G Environmental

| Sample ID | Client ID | | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **MW4** | | | | | | | | |
| Q3274-01 | MW4 | WATER | 2-Methylnaphthalene | | 24.500 | | 0.56 | 5 | ug/L |
| Q3274-01 | MW4 | WATER | Fluorene | | 3.500 | J | 0.63 | 5 | ug/L |
| Q3274-01 | MW4 | WATER | Phenanthrene | | 2.400 | J | 0.5 | 5 | ug/L |
| | | | **Total Svoc :** | | **30.40** | | | | |
| Q3274-01 | MW4 | WATER | (E)-1-Phenyl-1-butene | * | 16.500 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | 1-Phenyl-1-butene | * | 33.200 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Benzene, 1,2,4,5-tetramethyl- | * | 19.000 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Benzene, 1,2-diethyl- | * | 38.900 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Benzene, 2-ethyl-1,3-dimethyl- | * | 130.000 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Indane | * | 43.000 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Naphthalene, 1,4-dimethyl- | * | 10.000 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Naphthalene, 1,5-dimethyl- | * | 10.600 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Naphthalene, 1,6-dimethyl- | * | 23.900 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Naphthalene, 2,3-dimethyl- | * | 8.100 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | Tridecanoic acid | * | 7.800 | J | 0 | 0 | ug/L |
| Q3274-01 | MW4 | WATER | 1-Methylnaphthalene | * | 22.500 | J | 0.66 | 5 | ug/L |
| | | | **Total Tics :** | | **363.50** | | | | |
| | | | **Total Concentration:** | | **393.90** | | | | |

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** **Q3274**

**Client:** **G Environmental**

**Analytical Method:** **8270E**

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB169973BL | PB169973BL | Nitrobenzene-d5 | 100 | 94.0 | 94 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 90.7 | 91 | | 30 (52) | 130 (132) |
| | | Terphenyl-d14 | 100 | 98.8 | 99 | | 30 (42) | 130 (152) |
| PB169973BS | PB169973BS | Nitrobenzene-d5 | 100 | 94.3 | 94 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 91.8 | 92 | | 30 (52) | 130 (132) |
| | | Terphenyl-d14 | 100 | 97.3 | 97 | | 30 (42) | 130 (152) |
| PB169973BSD | PB169973BSD | Nitrobenzene-d5 | 100 | 91.5 | 91 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 90.3 | 90 | | 30 (52) | 130 (132) |
| | | Terphenyl-d14 | 100 | 96.5 | 97 | | 30 (42) | 130 (152) |
| Q3274-01 | MW4 | Nitrobenzene-d5 | 100 | 90.5 | 90 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 89.5 | 90 | | 30 (52) | 130 (132) |
| | | Terphenyl-d14 | 100 | 89.1 | 89 | | 30 (42) | 130 (152) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | Q3274 | **Analytical Method:** | 8270E |
| **Client:** | G Environmental | **DataFile:** | BG064489.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169973BS | Benzaldehyde | 50 | 26.5 | ug/L | 53 | | | | 20 (10) | 160 (162) | |
| | bis(2-Chloroethyl)ether | 50 | 49.4 | ug/L | 99 | | | | 70 (62) | 130 (103) | |
| | 2,2-oxybis(1-Chloropropane) | 50 | 49.5 | ug/L | 99 | | | | 70 (65) | 130 (100) | |
| | Acetophenone | 50 | 57.0 | ug/L | 114 | | | | 70 (60) | 130 (104) | |
| | N-Nitroso-di-n-propylamine | 50 | 51.0 | ug/L | 102 | | | | 70 (57) | 130 (107) | |
| | Hexachloroethane | 50 | 49.2 | ug/L | 98 | | | | 20 (76) | 160 (118) | |
| | Nitrobenzene | 50 | 50.7 | ug/L | 101 | | | | 70 (58) | 130 (106) | |
| | Isophorone | 50 | 48.4 | ug/L | 97 | | | | 70 (61) | 130 (102) | |
| | bis(2-Chloroethoxy)methane | 50 | 50.5 | ug/L | 101 | | | | 70 (58) | 130 (109) | |
| | Naphthalene | 50 | 50.7 | ug/L | 101 | | | | 70 (64) | 130 (107) | |
| | 4-Chloroaniline | 50 | 18.8 | ug/L | 38 | | * | | 70 (10) | 130 (85) | |
| | Hexachlorobutadiene | 50 | 49.1 | ug/L | 98 | | | | 70 (69) | 130 (101) | |
| | Caprolactam | 50 | 52.0 | ug/L | 104 | | | | 20 (58) | 160 (128) | |
| | 2-Methylnaphthalene | 50 | 46.2 | ug/L | 92 | | | | 70 (64) | 130 (107) | |
| | Hexachlorocyclopentadiene | 100 | 150 | ug/L | 150 | | | | 20 (36) | 160 (160) | |
| | 1,1-Biphenyl | 50 | 56.4 | ug/L | 113 | | | | 70 (72) | 130 (98) | |
| | 2-Chloronaphthalene | 50 | 50.1 | ug/L | 100 | | | | 70 (59) | 130 (106) | |
| | 2-Nitroaniline | 50 | 53.0 | ug/L | 106 | | | | 70 (73) | 130 (114) | |
| | Dimethylphthalate | 50 | 52.1 | ug/L | 104 | | | | 70 (64) | 130 (103) | |
| | Acenaphthylene | 50 | 57.9 | ug/L | 116 | | | | 70 (79) | 130 (103) | |
| | 2,6-Dinitrotoluene | 50 | 53.0 | ug/L | 106 | | | | 70 (64) | 130 (110) | |
| | 3-Nitroaniline | 50 | 30.0 | ug/L | 60 | | * | | 70 (28) | 130 (100) | |
| | Acenaphthene | 50 | 49.8 | ug/L | 100 | | | | 70 (59) | 130 (113) | |
| | Dibenzofuran | 50 | 51.4 | ug/L | 103 | | | | 70 (65) | 130 (106) | |
| | 2,4-Dinitrotoluene | 50 | 52.2 | ug/L | 104 | | | | 70 (60) | 130 (115) | |
| | Diethylphthalate | 50 | 51.8 | ug/L | 104 | | | | 70 (63) | 130 (105) | |
| | 4-Chlorophenyl-phenylether | 50 | 50.4 | ug/L | 101 | | | | 70 (61) | 130 (104) | |
| | Fluorene | 50 | 52.1 | ug/L | 104 | | | | 70 (64) | 130 (107) | |
| | 4-Nitroaniline | 50 | 53.5 | ug/L | 107 | | | | 70 (55) | 130 (125) | |
| | N-Nitrosodiphenylamine | 50 | 52.3 | ug/L | 105 | | | | 70 (61) | 130 (109) | |
| | 4-Bromophenyl-phenylether | 50 | 51.0 | ug/L | 102 | | | | 70 (73) | 130 (103) | |
| | Hexachlorobenzene | 50 | 50.8 | ug/L | 102 | | | | 70 (73) | 130 (106) | |
| | Atrazine | 50 | 55.0 | ug/L | 110 | | | | 70 (76) | 130 (120) | |
| | Phenanthrene | 50 | 51.6 | ug/L | 103 | | | | 70 (62) | 130 (109) | |
| | Anthracene | 50 | 53.0 | ug/L | 106 | | | | 70 (65) | 130 (110) | |
| | Carbazole | 50 | 53.2 | ug/L | 106 | | | | 70 (62) | 130 (106) | |
| | Di-n-butylphthalate | 50 | 52.6 | ug/L | 105 | | | | 70 (64) | 130 (106) | |
| | Fluoranthene | 50 | 52.1 | ug/L | 104 | | | | 70 (64) | 130 (110) | |
| | Pyrene | 50 | 51.7 | ug/L | 103 | | | | 70 (71) | 130 (103) | |
| | Butylbenzylphthalate | 50 | 52.8 | ug/L | 106 | | | | 70 (61) | 130 (105) | |
| | 3,3-Dichlorobenzidine | 50 | 30.6 | ug/L | 61 | | * | | 70 (43) | 130 (108) | |
| | Benzo(a)anthracene | 50 | 51.5 | ug/L | 103 | | | | 70 (62) | 130 (107) | |
| | Chrysene | 50 | 51.3 | ug/L | 103 | | | | 70 (61) | 130 (108) | |
| | bis(2-Ethylhexyl)phthalate | 50 | 52.7 | ug/L | 105 | | | | 70 (59) | 130 (110) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3274 **Analytical Method:** 8270E

**Client:** G Environmental **DataFile:** BG064489.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169973BS | Di-n-octyl phthalate | 50 | 52.0 | ug/L | 104 | | | | 70 (52) | 130 (139) | |
| | Benzo(b)fluoranthene | 50 | 54.2 | ug/L | 108 | | | | 70 (77) | 130 (113) | |
| | Benzo(k)fluoranthene | 50 | 51.8 | ug/L | 104 | | | | 70 (77) | 130 (105) | |
| | Benzo(a)pyrene | 50 | 54.9 | ug/L | 110 | | | | 70 (72) | 130 (131) | |
| | Indeno(1,2,3-cd)pyrene | 50 | 53.9 | ug/L | 108 | | | | 70 (72) | 130 (105) | |
| | Dibenz(a,h)anthracene | 50 | 55.2 | ug/L | 110 | | | | 70 (78) | 130 (115) | |
| | Benzo(g,h,i)perylene | 50 | 54.7 | ug/L | 109 | | | | 70 (75) | 130 (118) | |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 54.2 | ug/L | 108 | | | | 70 (72) | 130 (101) | |
| | 1,4-Dioxane | 50 | 37.9 | ug/L | 76 | | | | 20 (38) | 160 (125) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

| | | | |
|---|---|---|---|
| SDG No.: | Q3274 | Analytical Method: | 8270E |
| Client: | G Environmental | DataFile: | BG064490.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169973BSD | Benzaldehyde | 50 | 26.1 | ug/L | 52 | 2 | | | 20 (10) | 160 (162) | 20 (20) |
| | bis(2-Chloroethyl)ether | 50 | 49.7 | ug/L | 99 | 1 | | | 70 (62) | 130 (103) | 20 (20) |
| | 2,2-oxybis(1-Chloropropane) | 50 | 48.3 | ug/L | 97 | 2 | | | 70 (65) | 130 (100) | 20 (20) |
| | Acetophenone | 50 | 54.9 | ug/L | 110 | 4 | | | 70 (60) | 130 (104) | 20 (20) |
| | N-Nitroso-di-n-propylamine | 50 | 52.4 | ug/L | 105 | 3 | | | 70 (57) | 130 (107) | 20 (20) |
| | Hexachloroethane | 50 | 49.3 | ug/L | 99 | 0 | | | 20 (76) | 160 (118) | 20 (20) |
| | Nitrobenzene | 50 | 47.6 | ug/L | 95 | 6 | | | 70 (58) | 130 (106) | 20 (20) |
| | Isophorone | 50 | 47.7 | ug/L | 95 | 1 | | | 70 (61) | 130 (102) | 20 (20) |
| | bis(2-Chloroethoxy)methane | 50 | 49.3 | ug/L | 99 | 2 | | | 70 (58) | 130 (109) | 20 (20) |
| | Naphthalene | 50 | 48.5 | ug/L | 97 | 4 | | | 70 (64) | 130 (107) | 20 (20) |
| | 4-Chloroaniline | 50 | 15.2 | ug/L | 30 | 21 | * | * | 70 (10) | 130 (85) | 20 (20) |
| | Hexachlorobutadiene | 50 | 47.0 | ug/L | 94 | 4 | | | 70 (69) | 130 (101) | 20 (20) |
| | Caprolactam | 50 | 50.1 | ug/L | 100 | 4 | | | 20 (58) | 160 (128) | 20 (20) |
| | 2-Methylnaphthalene | 50 | 44.5 | ug/L | 89 | 4 | | | 70 (64) | 130 (107) | 20 (20) |
| | Hexachlorocyclopentadiene | 100 | 140 | ug/L | 140 | 7 | | | 20 (36) | 160 (160) | 20 (20) |
| | 1,1-Biphenyl | 50 | 53.2 | ug/L | 106 | 6 | | | 70 (72) | 130 (98) | 20 (20) |
| | 2-Chloronaphthalene | 50 | 47.4 | ug/L | 95 | 6 | | | 70 (59) | 130 (106) | 20 (20) |
| | 2-Nitroaniline | 50 | 50.6 | ug/L | 101 | 5 | | | 70 (73) | 130 (114) | 20 (20) |
| | Dimethylphthalate | 50 | 48.6 | ug/L | 97 | 7 | | | 70 (64) | 130 (103) | 20 (20) |
| | Acenaphthylene | 50 | 55.5 | ug/L | 111 | 4 | | | 70 (79) | 130 (103) | 20 (20) |
| | 2,6-Dinitrotoluene | 50 | 50.2 | ug/L | 100 | 5 | | | 70 (64) | 130 (110) | 20 (20) |
| | 3-Nitroaniline | 50 | 26.1 | ug/L | 52 | 14 | * | | 70 (28) | 130 (100) | 20 (20) |
| | Acenaphthene | 50 | 47.3 | ug/L | 95 | 5 | | | 70 (59) | 130 (113) | 20 (20) |
| | Dibenzofuran | 50 | 49.0 | ug/L | 98 | 5 | | | 70 (65) | 130 (106) | 20 (20) |
| | 2,4-Dinitrotoluene | 50 | 53.2 | ug/L | 106 | 2 | | | 70 (60) | 130 (115) | 20 (20) |
| | Diethylphthalate | 50 | 49.5 | ug/L | 99 | 5 | | | 70 (63) | 130 (105) | 20 (20) |
| | 4-Chlorophenyl-phenylether | 50 | 48.0 | ug/L | 96 | 5 | | | 70 (61) | 130 (104) | 20 (20) |
| | Fluorene | 50 | 50.3 | ug/L | 101 | 4 | | | 70 (64) | 130 (107) | 20 (20) |
| | 4-Nitroaniline | 50 | 52.3 | ug/L | 105 | 2 | | | 70 (55) | 130 (125) | 20 (20) |
| | N-Nitrosodiphenylamine | 50 | 49.3 | ug/L | 99 | 6 | | | 70 (61) | 130 (109) | 20 (20) |
| | 4-Bromophenyl-phenylether | 50 | 48.1 | ug/L | 96 | 6 | | | 70 (73) | 130 (103) | 20 (20) |
| | Hexachlorobenzene | 50 | 48.9 | ug/L | 98 | 4 | | | 70 (73) | 130 (106) | 20 (20) |
| | Atrazine | 50 | 52.8 | ug/L | 106 | 4 | | | 70 (76) | 130 (120) | 20 (20) |
| | Phenanthrene | 50 | 48.6 | ug/L | 97 | 6 | | | 70 (62) | 130 (109) | 20 (20) |
| | Anthracene | 50 | 49.9 | ug/L | 100 | 6 | | | 70 (65) | 130 (110) | 20 (20) |
| | Carbazole | 50 | 52.1 | ug/L | 104 | 2 | | | 70 (62) | 130 (106) | 20 (20) |
| | Di-n-butylphthalate | 50 | 51.7 | ug/L | 103 | 2 | | | 70 (64) | 130 (106) | 20 (20) |
| | Fluoranthene | 50 | 51.0 | ug/L | 102 | 2 | | | 70 (64) | 130 (110) | 20 (20) |
| | Pyrene | 50 | 49.5 | ug/L | 99 | 4 | | | 70 (71) | 130 (103) | 20 (20) |
| | Butylbenzylphthalate | 50 | 50.7 | ug/L | 101 | 4 | | | 70 (61) | 130 (105) | 20 (20) |
| | 3,3-Dichlorobenzidine | 50 | 27.3 | ug/L | 55 | 11 | * | | 70 (43) | 130 (108) | 20 (20) |
| | Benzo(a)anthracene | 50 | 50.0 | ug/L | 100 | 3 | | | 70 (62) | 130 (107) | 20 (20) |
| | Chrysene | 50 | 49.6 | ug/L | 99 | 3 | | | 70 (61) | 130 (108) | 20 (20) |
| | bis(2-Ethylhexyl)phthalate | 50 | 51.0 | ug/L | 102 | 3 | | | 70 (59) | 130 (110) | 20 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3274** | **Analytical Method:** | **8270E** |
| **Client:** | **G Environmental** | **DataFile:** | BG064490.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169973BSD | Di-n-octyl phthalate | 50 | 50.3 | ug/L | 101 | 3 | | | 70 (52) | 130 (139) | 20 (20) |
| | Benzo(b)fluoranthene | 50 | 50.4 | ug/L | 101 | 7 | | | 70 (77) | 130 (113) | 20 (20) |
| | Benzo(k)fluoranthene | 50 | 51.7 | ug/L | 103 | 0 | | | 70 (77) | 130 (105) | 20 (20) |
| | Benzo(a)pyrene | 50 | 53.3 | ug/L | 107 | 3 | | | 70 (72) | 130 (131) | 20 (20) |
| | Indeno(1,2,3-cd)pyrene | 50 | 51.2 | ug/L | 102 | 5 | | | 70 (72) | 130 (105) | 20 (20) |
| | Dibenz(a,h)anthracene | 50 | 52.4 | ug/L | 105 | 5 | | | 70 (78) | 130 (115) | 20 (20) |
| | Benzo(g,h,i)perylene | 50 | 52.7 | ug/L | 105 | 4 | | | 70 (75) | 130 (118) | 20 (20) |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 53.7 | ug/L | 107 | 1 | | | 70 (72) | 130 (101) | 20 (20) |
| | 1,4-Dioxane | 50 | 40.6 | ug/L | 81 | 7 | | | 20 (38) | 160 (125) | 20 (20) |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169973BL

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3274

Lab File ID: BG064488.D

Lab Sample ID: PB169973BL

Instrument ID: BNA_G

Date Extracted: 10/03/2025

Matrix: (soil/water) Water

Date Analyzed: 10/03/2025

Level: (low/med) LOW

Time Analyzed: 15:35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB169973BS | PB169973BS | BG064489.D | 10/03/2025 |
| PB169973BSD | PB169973BSD | BG064490.D | 10/03/2025 |
| MW4 | Q3274-01 | BG064494.D | 10/03/2025 |

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance    Contract: GENV01

Lab Code: ACE    SDG NO.: Q3274

Lab File ID: BG064472.D    DFTPP Injection Date: 10/02/2025

Instrument ID: BNA_G    DFTPP Injection Time: 08:21

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.3 ( 1.1 ) 1 |
| 69 | Mass 69 relative abundance | 29.9 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.4 |
| 365 | Greater than 1% of mass 198 | 6.7 |
| 441 | Present, but less than mass 443 | 16.8 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.5 (19.5) 2 |

1-Value is % mass 69    2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BG064473.D | 10/02/2025 | 09:01 |
| SSTDICC005 | SSTDICC005 | BG064474.D | 10/02/2025 | 09:42 |
| SSTDICC020 | SSTDICC020 | BG064476.D | 10/02/2025 | 11:33 |
| SSTDICCC040 | SSTDICCC040 | BG064477.D | 10/02/2025 | 12:14 |
| SSTDICC050 | SSTDICC050 | BG064478.D | 10/02/2025 | 12:55 |
| SSTDICC060 | SSTDICC060 | BG064479.D | 10/02/2025 | 13:35 |
| SSTDICC080 | SSTDICC080 | BG064480.D | 10/02/2025 | 14:16 |
| SSTDICC010 | SSTDICC010 | BG064481.D | 10/02/2025 | 15:49 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance    Contract: GENV01

Lab Code: ACE    SDG NO.: Q3274

Lab File ID: BG064484.D    DFTPP Injection Date: 10/03/2025

Instrument ID: BNA_G    DFTPP Injection Time: 12:52

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1.4 ) 1 |
| 69 | Mass 69 relative abundance | 28.7 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.3 ) 1 |
| 197 | Less than 2.0% of mass 198 | 0.3 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.1 |
| 365 | Greater than 1% of mass 198 | 6.1 |
| 441 | Present, but less than mass 443 | 11.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.9 (19.9) 2 |

1-Value is % mass 69    2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BG064485.D | 10/03/2025 | 13:33 |
| PB169973BL | PB169973BL | BG064488.D | 10/03/2025 | 15:35 |
| PB169973BS | PB169973BS | BG064489.D | 10/03/2025 | 16:16 |
| PB169973BSD | PB169973BSD | BG064490.D | 10/03/2025 | 16:57 |
| MW4 | Q3274-01 | BG064494.D | 10/03/2025 | 19:40 |

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# 8B
## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE  SDG NO.: Q3274

Client ID : SSTDCCC040  Date Analyzed: 10/03/2025

Lab File ID: BG064485.D  Time Analyzed: 13:33

Instrument ID: BNA_G  GC Column: ZB-GR  ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 17500 | 7.821 | 78873 | 10.61 | 59706 | 14.45 |
| | UPPER LIMIT | 35000 | 8.321 | 157746 | 11.112 | 119412 | 14.948 |
| | LOWER LIMIT | 8750 | 7.321 | 39436.5 | 10.112 | 29853 | 13.948 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB169973BL | 16965 | 7.82 | 71465 | 10.61 | 57081 | 14.45 |
| 02 | PB169973BS | 16264 | 7.82 | 69209 | 10.61 | 53762 | 14.45 |
| 03 | PB169973BSD | 15312 | 7.83 | 68886 | 10.61 | 53563 | 14.45 |
| 04 | MW4 | 15257 | 7.82 | 63069 | 10.61 | 49495 | 14.45 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3274

Client ID: SSTDCCC040 Date Analyzed: 10/03/2025

Lab File ID: BG064485.D Time Analyzed: 13:33

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 149943 | 17.186 | 155011 | 21.417 | 163411 | 24.39 |
| | UPPER LIMIT | 299886 | 17.686 | 310022 | 21.917 | 326822 | 24.89 |
| | LOWER LIMIT | 74971.5 | 16.686 | 77505.5 | 20.917 | 81705.5 | 23.89 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB169973BL | 145353 | 17.19 | 149348 | 21.41 | 157878 | 24.39 |
| 02 | PB169973BS | 136086 | 17.19 | 136322 | 21.41 | 146226 | 24.39 |
| 03 | PB169973BSD | 138632 | 17.19 | 141515 | 21.42 | 151583 | 24.39 |
| 04 | MW4 | 127112 | 17.19 | 134148 | 21.41 | 147315 | 24.39 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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# SAMPLE DATA

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# Report of Analysis

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client: | G Environmental | | | Date Collected: | 10/01/25 | | |
| Project: | ANN | | | Date Received: | 10/02/25 | | |
| Client Sample ID: | MW4 | | | SDG No.: | Q3274 | | |
| Lab Sample ID: | Q3274-01 | | | Matrix: | Water | | |
| Analytical Method: | 8270E | | | % Solid: | 0 | | |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 | uL | |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group1 | | |
| Extraction Type : | | Decanted : | N | Level : | LOW | | |
| Injection Volume : | | GPC Factor : | 1.0 | GPC Cleanup : | N | PH : | |
| Prep Method : | | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064494.D | 1 | 10/03/25 08:35 | 10/03/25 19:40 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 3.90 | U | 3.90 | 10.0 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.81 | U | 0.81 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.30 | U | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 0.74 | U | 0.74 | 5.00 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.40 | U | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 0.65 | U | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 0.76 | U | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 0.68 | U | 0.68 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 0.84 | UQ | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 0.54 | U | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.10 | U | 1.10 | 10.0 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 24.5 | | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 3.60 | U | 3.60 | 10.0 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.53 | U | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.61 | U | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.61 | U | 0.61 | 5.00 | ug/L |
| 208-96-8 | Acenaphthylene | 0.75 | U | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 0.92 | U | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.10 | UQ | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.55 | U | 0.55 | 5.00 | ug/L |
| 132-64-9 | Dibenzofuran | 0.61 | U | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 0.69 | U | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.68 | U | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 3.50 | J | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 1.50 | U | 1.50 | 5.00 | ug/L |

Raw Data: **BG064494.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | G Environmental | | | Date Collected: | 10/01/25 |
| Project: | ANN | | | Date Received: | 10/02/25 |
| Client Sample ID: | MW4 | | | SDG No.: | Q3274 |
| Lab Sample ID: | Q3274-01 | | | Matrix: | Water |
| Analytical Method: | 8270E | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group1 |
| Extraction Type : | | Decanted : | N | Level : | LOW |
| Injection Volume : | | GPC Factor : | 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064494.D | 1 | 10/03/25 08:35 | 10/03/25 19:40 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 0.58 | U | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.40 | U | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.00 | U | 1.00 | 5.00 | ug/L |
| 85-01-8 | Phenanthrene | 2.40 | J | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 0.61 | U | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 0.72 | U | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.20 | U | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 0.82 | U | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 0.93 | UQ | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.45 | U | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.44 | U | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.60 | U | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.30 | U | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 0.49 | U | 0.49 | 5.00 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 0.48 | U | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 0.55 | U | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.59 | U | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.67 | U | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 0.69 | U | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.00 | U | 1.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 90.5 | | 30 (67) - 130 (132) | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 89.5 | | 30 (52) - 130 (132) | 90% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 89.1 | | 30 (42) - 130 (152) | 89% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 15300 | 7.824 | | | |

Raw Data: **BG064494.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | G Environmental | | | Date Collected: | 10/01/25 |
| Project: | ANN | | | Date Received: | 10/02/25 |
| Client Sample ID: | MW4 | | | SDG No.: | Q3274 |
| Lab Sample ID: | Q3274-01 | | | Matrix: | Water |
| Analytical Method: | 8270E | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group1 |
| Extraction Type : | | Decanted : | N | Level : | LOW |
| Injection Volume : | | GPC Factor : | 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064494.D | 1 | 10/03/25 08:35 | 10/03/25 19:40 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 1146-65-2 | Naphthalene-d8 | 63100 | 10.609 | | | |
| 15067-26-2 | Acenaphthene-d10 | 49500 | 14.446 | | | |
| 1517-22-2 | Phenanthrene-d10 | 127000 | 17.19 | | | |
| 1719-03-5 | Chrysene-d12 | 134000 | 21.408 | | | |
| 1520-96-3 | Perylene-d12 | 147000 | 24.387 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000496-11-7 | Indane | 43.0 | J | | 8.19 | ug/L |
| 000135-01-3 | Benzene, 1,2-diethyl- | 38.9 | J | | 8.32 | ug/L |
| 002870-04-4 | Benzene, 2-ethyl-1,3-dimethyl- | 130 | J | | 8.93 | ug/L |
| 000095-93-2 | Benzene, 1,2,4,5-tetramethyl- | 19.0 | J | | 9.45 | ug/L |
| 001005-64-7 | (E)-1-Phenyl-1-butene | 16.5 | J | | 9.86 | ug/L |
| 000824-90-8 | 1-Phenyl-1-butene | 33.2 | J | | 10.0 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 22.5 | J | | 12.5 | ug/L |
| 000571-58-4 | Naphthalene, 1,4-dimethyl- | 10.0 | J | | 13.6 | ug/L |
| 000575-43-9 | Naphthalene, 1,6-dimethyl- | 23.9 | J | | 13.8 | ug/L |
| 000571-61-9 | Naphthalene, 1,5-dimethyl- | 10.6 | J | | 13.8 | ug/L |
| 000581-40-8 | Naphthalene, 2,3-dimethyl- | 8.10 | J | | 14.2 | ug/L |
| 000638-53-9 | Tridecanoic acid | 7.80 | J | | 18.1 | ug/L |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BG064494.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Quant Time: Oct 04 00:00:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

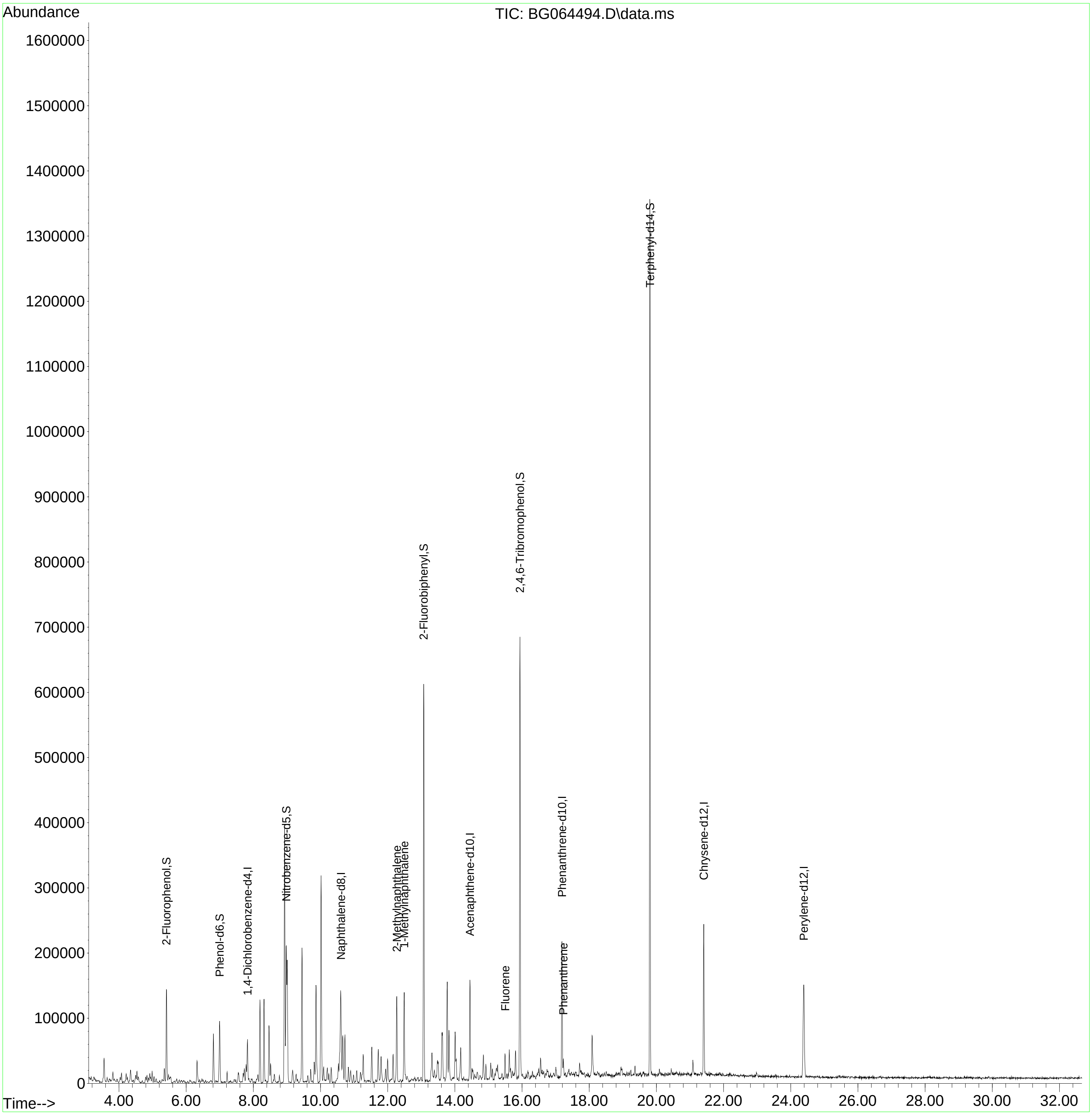
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.824 | 152 | 15257 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.609 | 136 | 63069 | 20.000 | ng | # 0.00 |
| 39) Acenaphthene-d10 | 14.446 | 164 | 49495 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.190 | 188 | 127112 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.408 | 240 | 134148 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.387 | 264 | 147315 | 20.000 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.410 | 112 | 51725 | 62.743 | ng | 0.00 |
| 7) Phenol-d6 | 6.996 | 99 | 41514 | 37.472 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.982 | 82 | 106151 | 90.500 | ng | 0.02 |
| 42) 2,4,6-Tribromophenol | 15.938 | 330 | 134254 | 149.642 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.071 | 172 | 300588 | 89.518 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.810 | 244 | 631565 | 89.098 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 37) 2-Methylnaphthalene | 12.272 | 142 | 61166 | 24.535 | ng | 91 |
| 38) 1-Methylnaphthalene | 12.489 | 142 | 55919 | 22.495 | ng | 91 |
| 58) Fluorene | 15.498 | 166 | 13066 | 3.473 | ng | 90 |
| 71) Phenanthrene | 17.231 | 178 | 16026 | 2.411 | ng | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

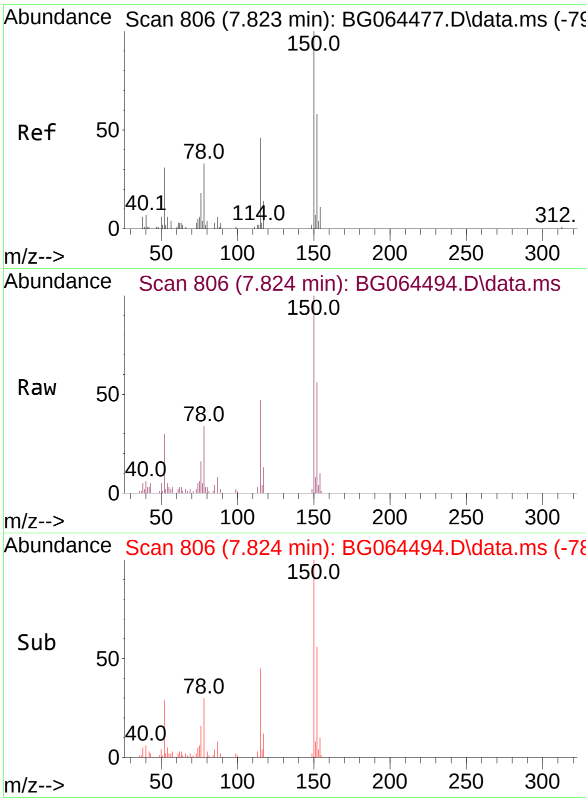
Sample Results: **BG064494.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Oct 04 00:00:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration
```

**Instrument :**
BNA_G
**ClientSampleId :**
MW4



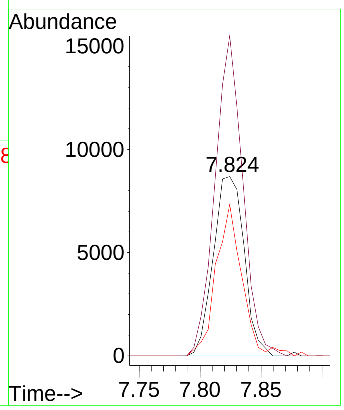
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

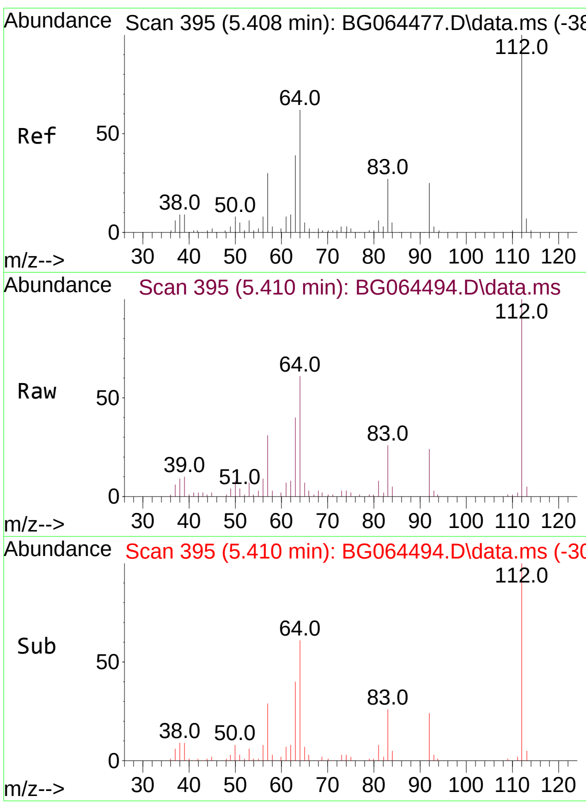



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.824 min Scan# 8
Delta R.T. 0.004 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:152 Resp: 15257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 178.5 | 138.6 | 207.8 |
| 115 | 84.4 | 63.4 | 95.2 |

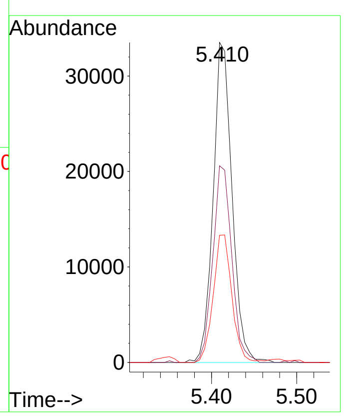


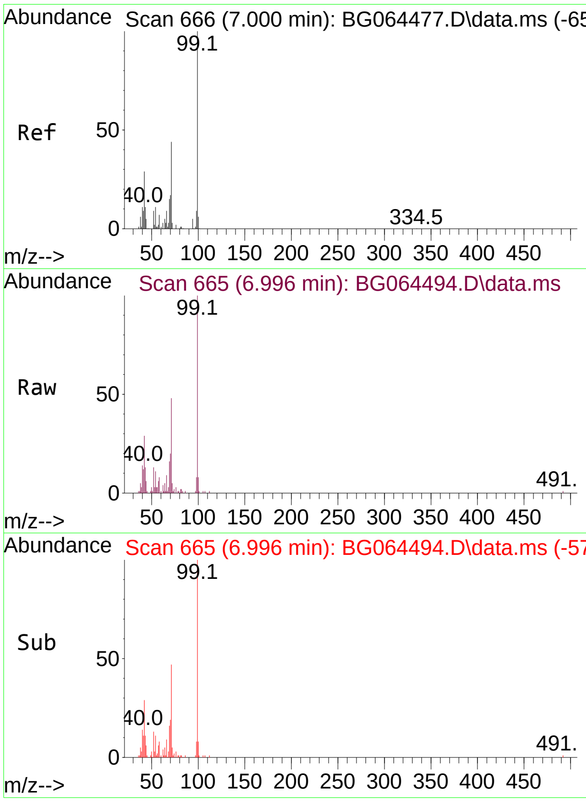

#5
2-Fluorophenol
Concen: 62.743 ng
RT: 5.410 min Scan# 395
Delta R.T. 0.004 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:112 Resp: 51725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.4 | 49.8 | 74.8 |
| 63 | 39.7 | 31.3 | 46.9 |



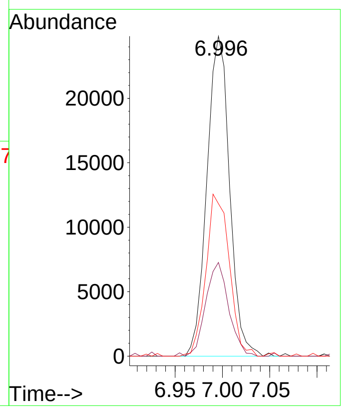
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

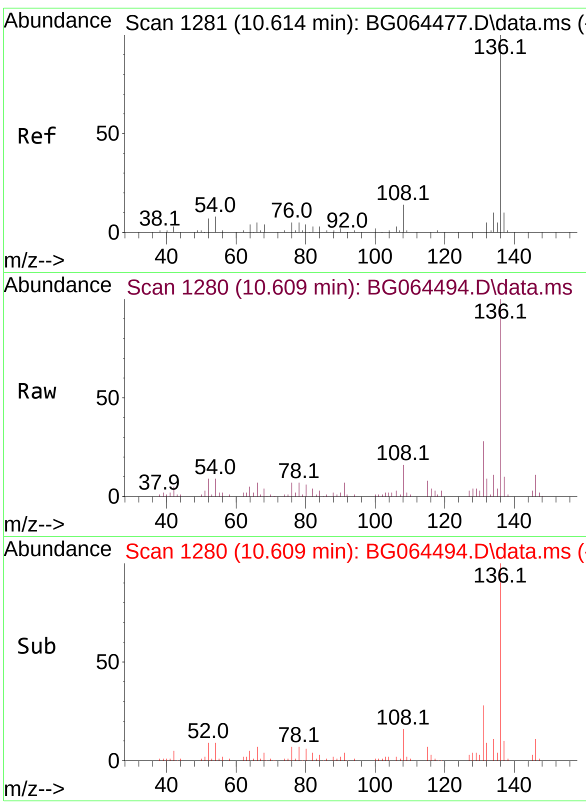



#7
Phenol-d6
Concen: 37.472 ng
RT: 6.996 min Scan# 66
Delta R.T. 0.010 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion: 99 Resp: 41514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 29.3 | 22.9 | 34.3 |
| 71 | 47.6 | 35.4 | 53.2 |

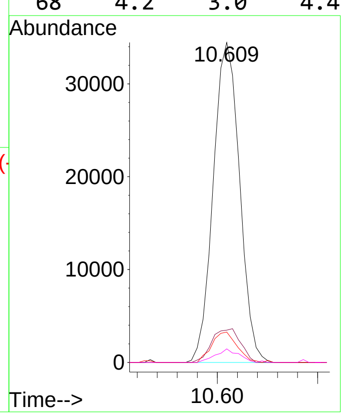


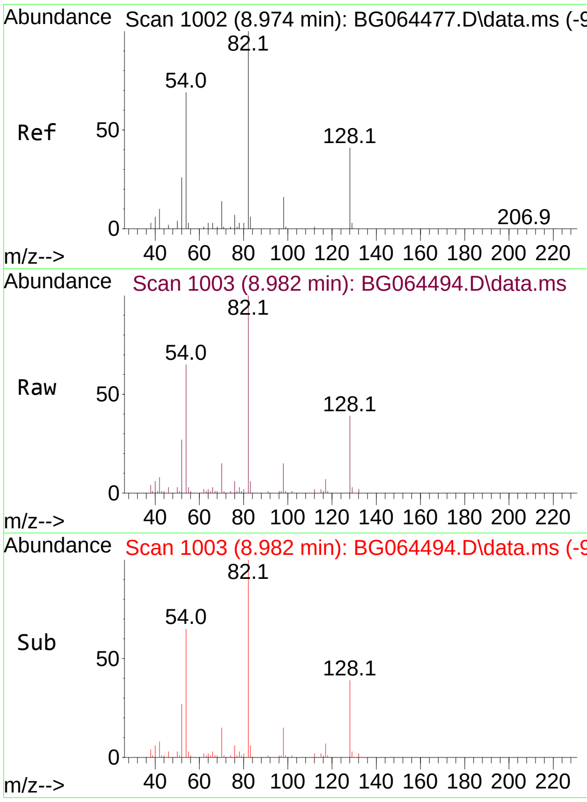

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.609 min Scan# 1280
Delta R.T. 0.004 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:136 Resp: 63069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.1 | 8.3 | 12.5 |
| 54 | 9.5 | 6.2 | 9.4# |
| 68 | 4.2 | 3.0 | 4.4 |



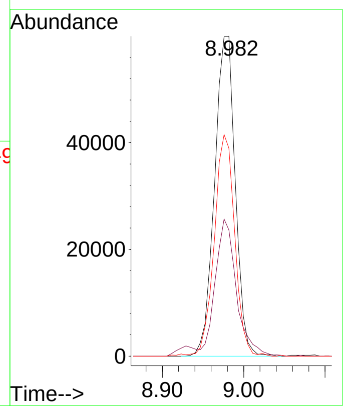
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

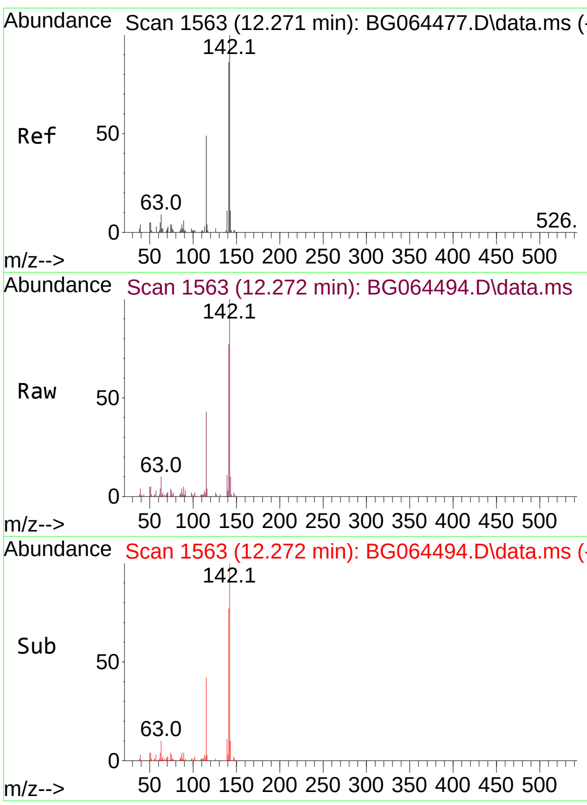



#23
Nitrobenzene-d5
Concen:   90.500 ng
RT:   8.982 min   Scan# 10
Delta R.T.   0.016 min
Lab File:   BG064494.D
Acq:   3 Oct 2025   19:40

Tgt Ion: 82 Resp:   106151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.4 | 33.1 | 49.7 |
| 54 | 65.0 | 55.4 | 83.2 |

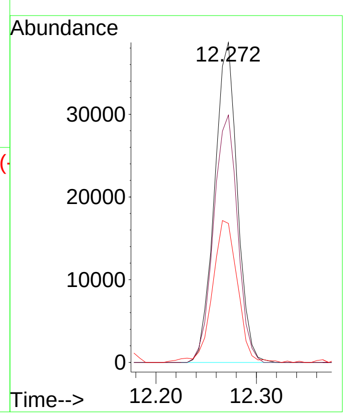


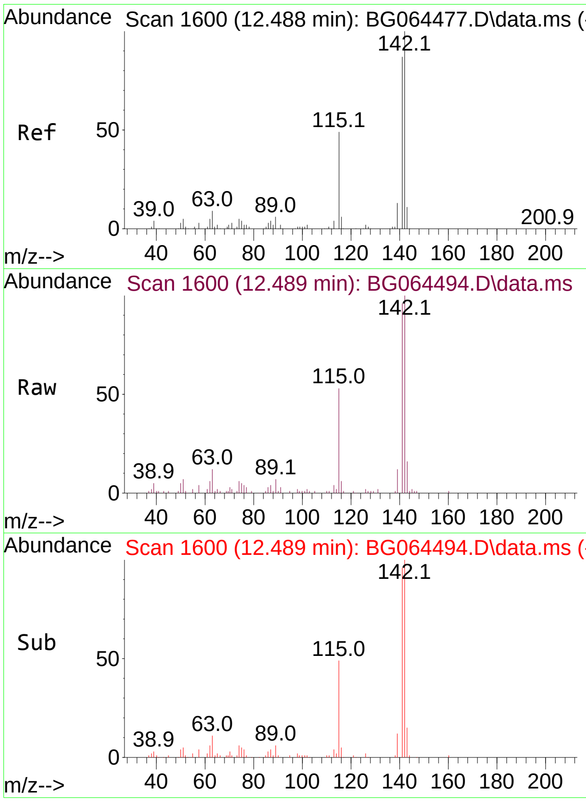

#37
2-Methylnaphthalene
Concen:   24.535 ng
RT:   12.272 min   Scan# 1563
Delta R.T.   0.004 min
Lab File:   BG064494.D
Acq:   3 Oct 2025   19:40

Tgt Ion:142 Resp:   61166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 77.3 | 68.7 | 103.1 |
| 115 | 43.4 | 39.3 | 58.9 |



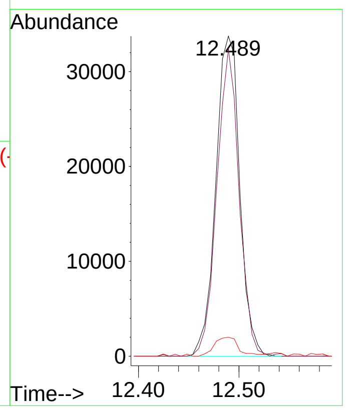
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

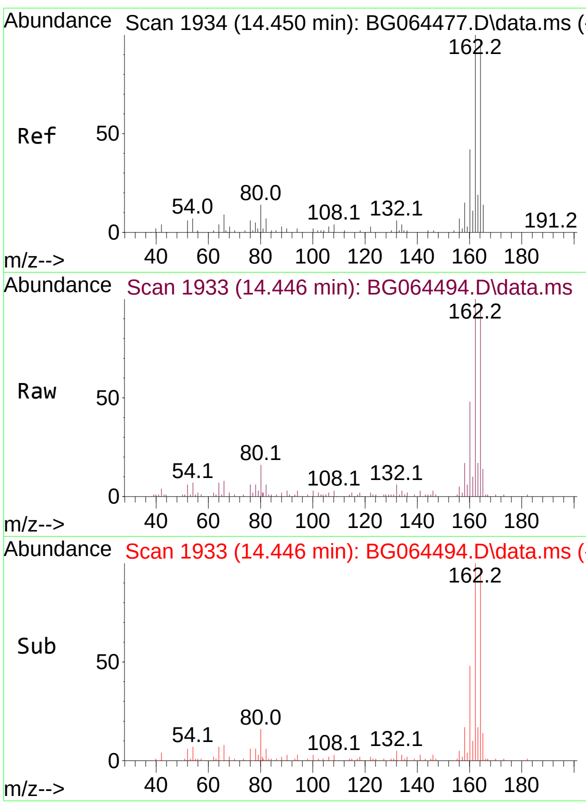



#38
1-Methylnaphthalene
Concen: 22.495 ng
RT: 12.489 min Scan# 16
Delta R.T. 0.004 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:142 Resp: 55919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 95.9 | 69.8 | 104.8 |
| 116 | 5.9 | 4.6 | 6.8 |

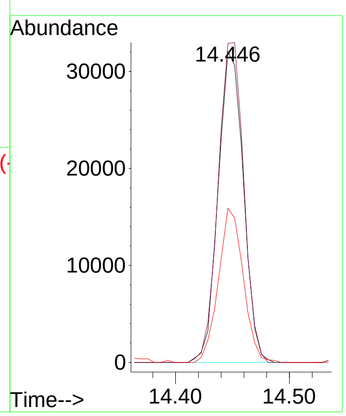


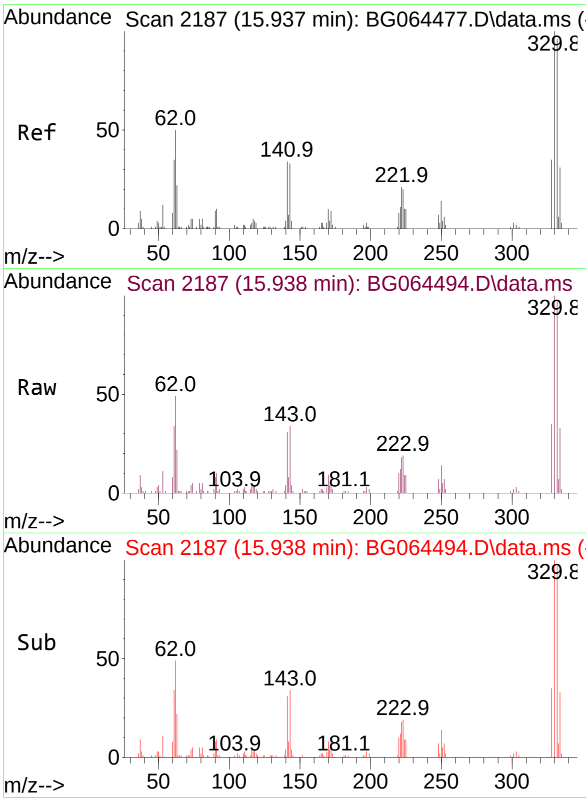

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.446 min Scan# 1933
Delta R.T. -0.002 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:164 Resp: 49495

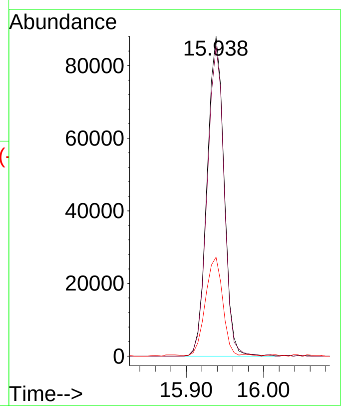
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.2 | 123.2 |
| 160 | 49.6 | 34.3 | 51.5 |

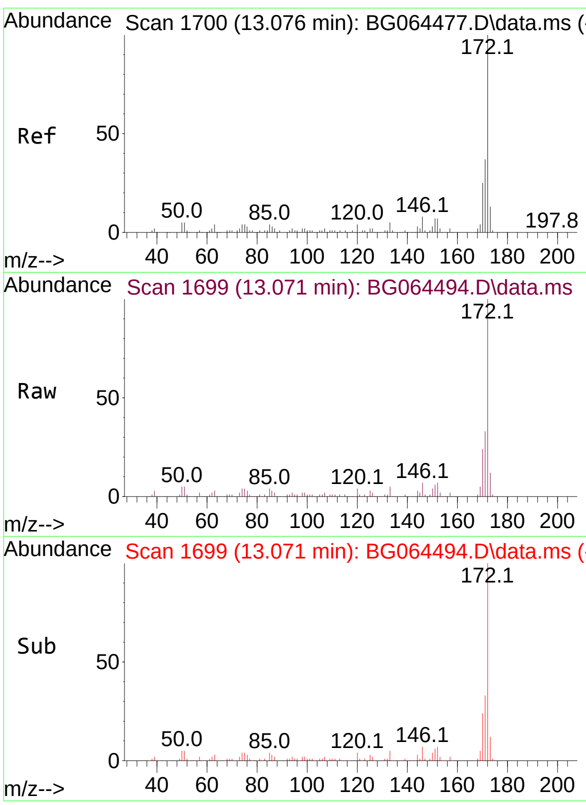


**Instrument :**
BNA_G
**ClientSampleId :**
MW4

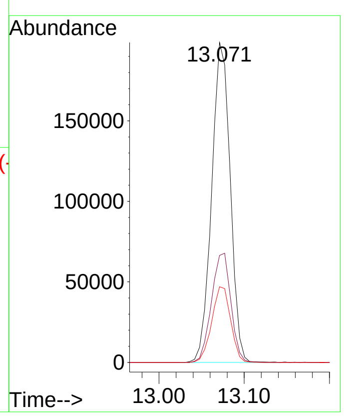



```
#42
2,4,6-Tribromophenol
Concen:  149.642 ng
RT:  15.938 min  Scan# 21
Delta R.T.  0.004 min
Lab File:   BG064494.D
Acq:  3 Oct 2025  19:40

Tgt Ion:330 Resp:  134254
Ion  Ratio  Lower  Upper
330  100
332   96.0   77.4  116.0
141   31.2   25.8   38.6
```

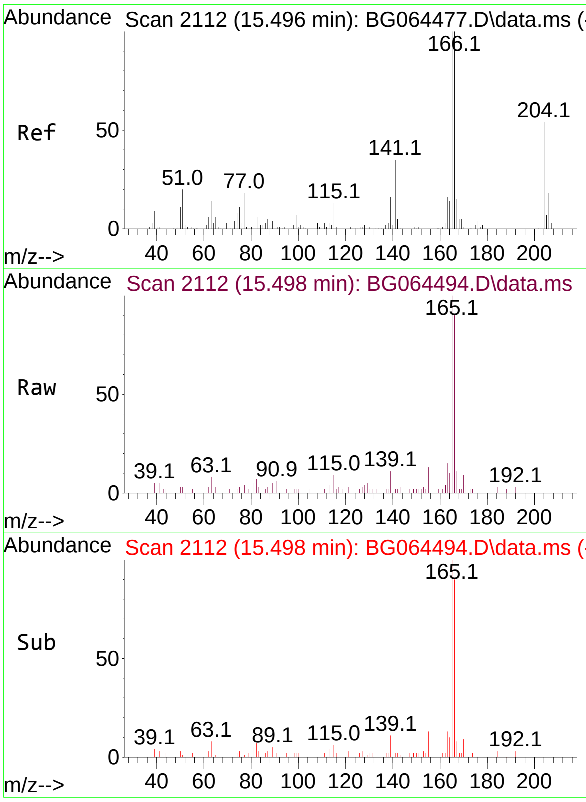


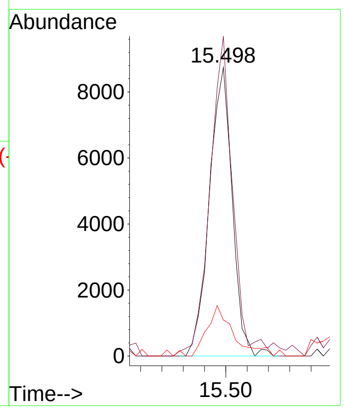

```
#45
2-Fluorobiphenyl
Concen:   89.518 ng
RT:  13.071 min  Scan# 1699
Delta R.T.  0.004 min
Lab File:   BG064494.D
Acq:  3 Oct 2025  19:40

Tgt Ion:172 Resp:  300588
Ion  Ratio  Lower  Upper
172  100
171   33.5   29.6   44.4
170   23.6   20.2   30.2
```

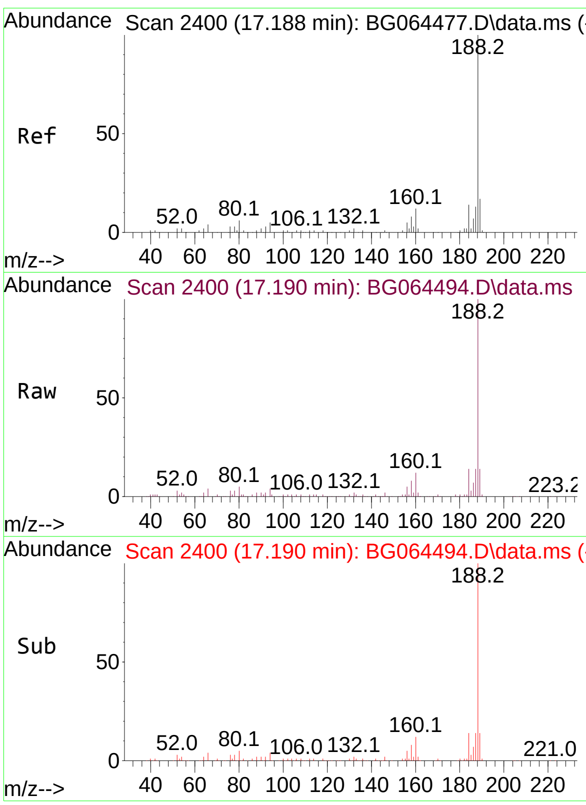


**Instrument :**
BNA_G
**ClientSampleId :**
MW4

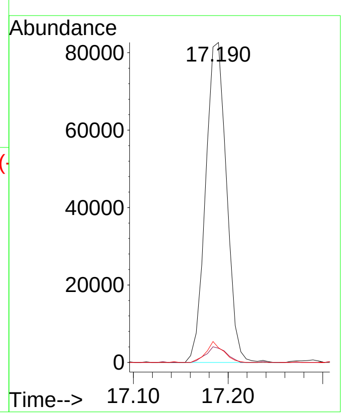



```
#58
Fluorene
Concen:    3.473 ng
RT:  15.498 min  Scan# 21
Delta R.T.  0.004 min
Lab File:   BG064494.D
Acq:  3 Oct 2025  19:40

Tgt Ion:166 Resp:   13066
Ion  Ratio  Lower  Upper
166  100
165  110.8   79.8  119.6
167   12.5   11.7   17.5
```

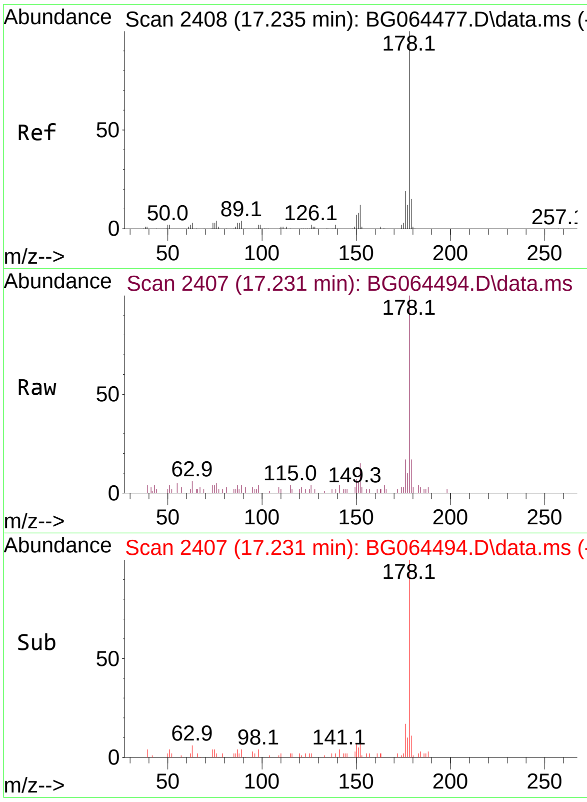



```
#64
Phenanthrene-d10
Concen:   20.000 ng
RT:  17.190 min  Scan# 2400
Delta R.T.  0.004 min
Lab File:   BG064494.D
Acq:  3 Oct 2025  19:40

Tgt Ion:188 Resp:  127112
Ion  Ratio  Lower  Upper
188  100
 94    4.4    3.7    5.5
 80    4.6    4.5    6.7
```



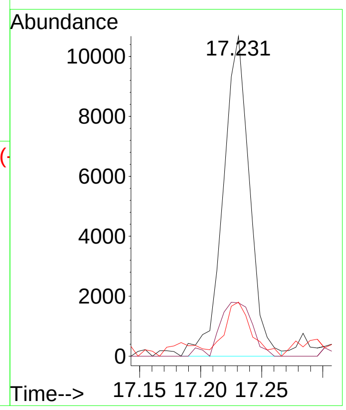
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

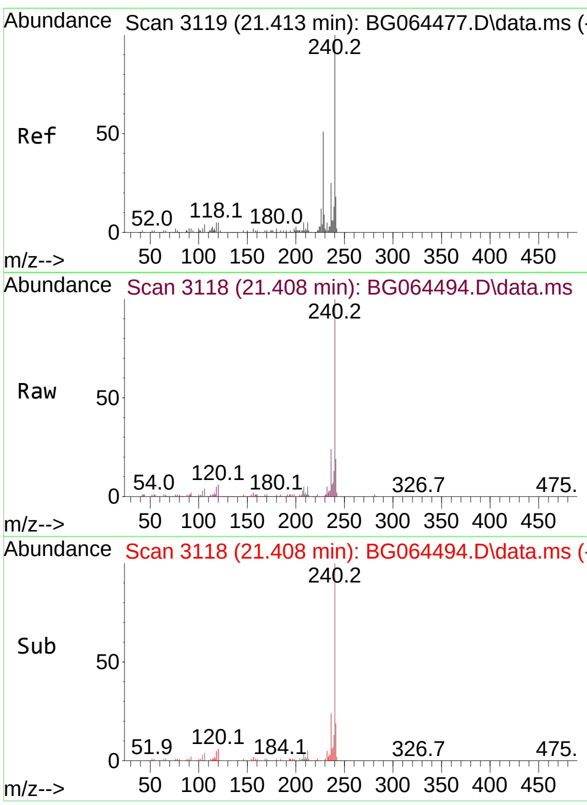



#71
Phenanthrene
Concen: 2.411 ng
RT: 17.231 min Scan# 24
Delta R.T. 0.004 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:178 Resp: 16026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 16.7 | 15.2 | 22.8 |
| 179 | 16.9 | 11.8 | 17.6 |

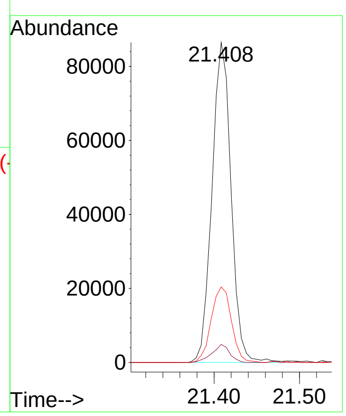


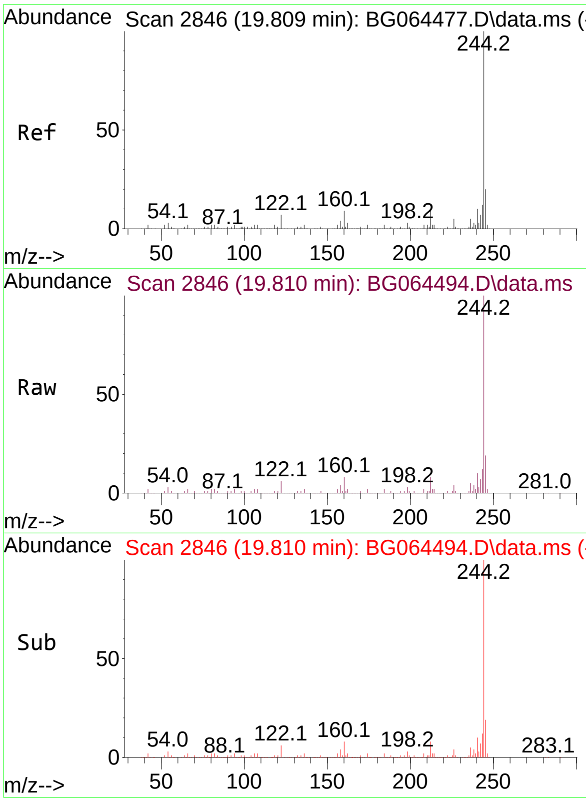

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.408 min Scan# 3118
Delta R.T. -0.002 min
Lab File: BG064494.D
Acq: 3 Oct 2025 19:40

Tgt Ion:240 Resp: 134148

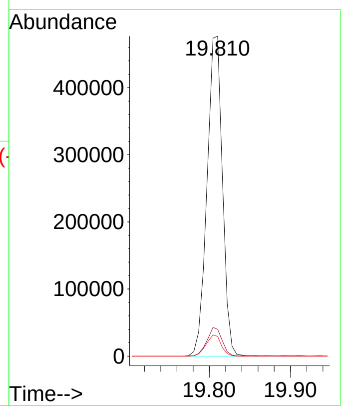
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.6 | 4.3 | 6.5 |
| 236 | 23.6 | 20.4 | 30.6 |

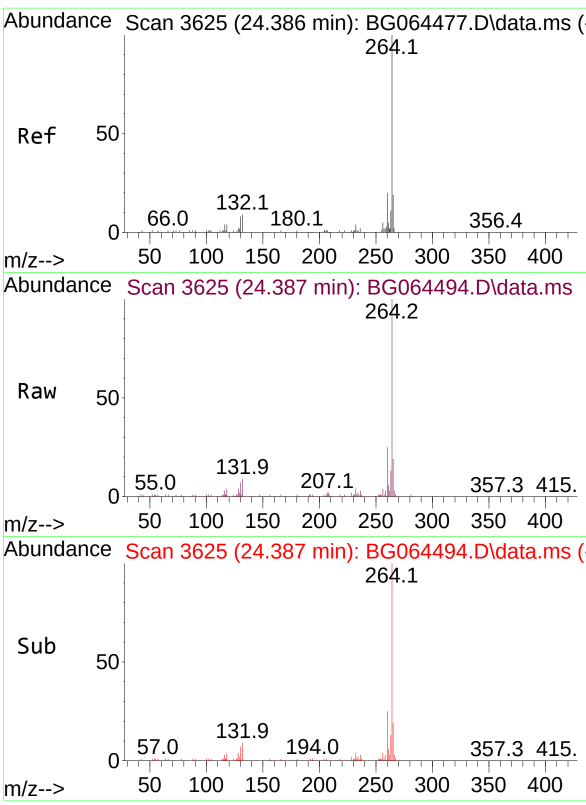


**Instrument :**
BNA_G
**ClientSampleId :**
MW4

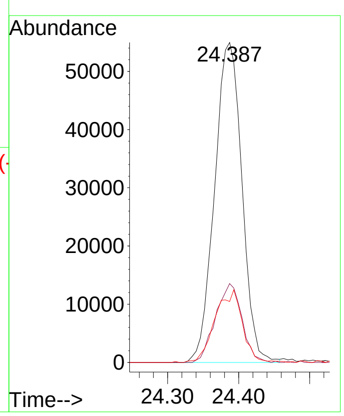



```
#79
Terphenyl-d14
Concen:   89.098 ng
RT:  19.810 min   Scan# 28
Delta R.T.   0.004 min
Lab File:    BG064494.D
Acq:  3 Oct 2025   19:40

Tgt Ion:244 Resp:   631565
Ion  Ratio   Lower   Upper
244  100
212    8.4     7.0    10.6
122    6.2     5.6     8.4
```




```
#86
Perylene-d12
Concen:   20.000 ng
RT:  24.387 min   Scan# 3625
Delta R.T.   -0.002 min
Lab File:    BG064494.D
Acq:  3 Oct 2025   19:40

Tgt Ion:264 Resp:   147315
Ion  Ratio   Lower   Upper
264  100
260   24.6    16.2    24.4#
265   19.0    15.0    22.4
```



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064494.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.553 | 74 | 79 | 90 | rVB2 | 36512 | 67623 | 3.78% | 0.516% |
| 2 | 3.817 | 118 | 124 | 129 | rBV2 | 13978 | 20850 | 1.17% | 0.159% |
| 3 | 4.076 | 164 | 168 | 172 | rVB | 14589 | 20500 | 1.15% | 0.156% |
| 4 | 4.211 | 182 | 191 | 195 | rBV4 | 13529 | 26335 | 1.47% | 0.201% |
| 5 | 4.340 | 209 | 213 | 220 | rVB4 | 17437 | 31470 | 1.76% | 0.240% |
| 6 | 4.499 | 231 | 240 | 242 | rBV5 | 11498 | 21308 | 1.19% | 0.163% |
| 7 | 4.534 | 242 | 246 | 250 | rVV5 | 17175 | 28488 | 1.59% | 0.217% |
| 8 | 4.986 | 319 | 323 | 328 | rVB2 | 17936 | 25072 | 1.40% | 0.191% |
| 9 | 5.351 | 381 | 385 | 389 | rVB2 | 19372 | 26748 | 1.50% | 0.204% |
| 10 | 5.410 | 389 | 395 | 401 | rBV | 140792 | 217111 | 12.14% | 1.656% |
| 11 | 6.320 | 542 | 550 | 560 | rBV3 | 34304 | 67909 | 3.80% | 0.518% |
| 12 | 6.808 | 627 | 633 | 641 | rVB | 75212 | 117362 | 6.56% | 0.895% |
| 13 | 6.996 | 657 | 665 | 673 | rVB2 | 94393 | 168852 | 9.44% | 1.288% |
| 14 | 7.219 | 698 | 703 | 709 | rVB3 | 17007 | 25494 | 1.43% | 0.194% |
| 15 | 7.548 | 752 | 759 | 766 | rBV5 | 15342 | 36055 | 2.02% | 0.275% |
| 16 | 7.701 | 779 | 785 | 786 | rBV3 | 13623 | 19061 | 1.07% | 0.145% |
| 17 | 7.730 | 786 | 790 | 794 | rVV2 | 19114 | 30474 | 1.70% | 0.232% |
| 18 | 7.783 | 794 | 799 | 801 | rVV | 25155 | 35131 | 1.96% | 0.268% |
| 19 | 7.824 | 801 | 806 | 811 | rVB | 61901 | 99946 | 5.59% | 0.762% |
| 20 | 8.194 | 863 | 869 | 876 | rVB | 128104 | 215058 | 12.03% | 1.640% |
| 21 | 8.318 | 882 | 890 | 895 | rBV | 128513 | 194121 | 10.86% | 1.481% |
| 22 | 8.465 | 909 | 915 | 920 | rBV2 | 87321 | 147098 | 8.23% | 1.122% |
| 23 | 8.512 | 920 | 923 | 930 | rVB2 | 29935 | 45635 | 2.55% | 0.348% |
| 24 | 8.623 | 939 | 942 | 954 | rVB | 12708 | 22658 | 1.27% | 0.173% |
| 25 | 8.929 | 987 | 994 | 998 | rBV | 394778 | 636165 | 35.58% | 4.853% |
| 26 | 8.982 | 998 | 1003 | 1005 | rVV | 209509 | 383441 | 21.45% | 2.925% |
| 27 | 9.005 | 1005 | 1007 | 1016 | rVB2 | 187787 | 282459 | 15.80% | 2.155% |
| 28 | 9.170 | 1028 | 1035 | 1043 | rVB6 | 19740 | 41935 | 2.35% | 0.320% |
| 29 | 9.276 | 1045 | 1053 | 1057 | rBV3 | 12528 | 24912 | 1.39% | 0.190% |
| 30 | 9.446 | 1076 | 1082 | 1088 | rVB | 205654 | 326538 | 18.26% | 2.491% |
| 31 | 9.704 | 1117 | 1126 | 1131 | rBV3 | 20784 | 32481 | 1.82% | 0.248% |
| 32 | 9.810 | 1139 | 1144 | 1148 | rBV3 | 32022 | 56862 | 3.18% | 0.434% |
| 33 | 9.863 | 1148 | 1153 | 1164 | rVB | 150055 | 283678 | 15.87% | 2.164% |
| 34 | 10.016 | 1164 | 1179 | 1187 | rBV2 | 318215 | 571299 | 31.95% | 4.358% |
| 35 | 10.092 | 1187 | 1192 | 1197 | rVV2 | 21232 | 31716 | 1.77% | 0.242% |
| 36 | 10.204 | 1202 | 1211 | 1215 | rVV5 | 22409 | 50348 | 2.82% | 0.384% |

Sample Results: **BG064494.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 10.245 | 1215 | 1218 | 1224 | rVV4 | 13479 | 18884 | 1.06% | 0.144% |
| 38 | 10.316 | 1224 | 1230 | 1236 | rVB2 | 23762 | 39727 | 2.22% | 0.303% |
| 39 | 10.533 | 1262 | 1267 | 1269 | rBV | 23212 | 33057 | 1.85% | 0.252% |
| 40 | 10.598 | 1269 | 1278 | 1284 | rVV2 | 136590 | 344557 | 19.27% | 2.628% |
| 41 | 10.662 | 1284 | 1289 | 1295 | rVV4 | 68658 | 129731 | 7.26% | 0.990% |
| 42 | 10.727 | 1295 | 1300 | 1307 | rVB | 72186 | 121367 | 6.79% | 0.926% |
| 43 | 10.827 | 1312 | 1317 | 1323 | rBV2 | 23239 | 35352 | 1.98% | 0.270% |
| 44 | 10.897 | 1323 | 1329 | 1337 | rVB4 | 18522 | 39974 | 2.24% | 0.305% |
| 45 | 10.979 | 1339 | 1343 | 1349 | rVB3 | 11778 | 18745 | 1.05% | 0.143% |
| 46 | 11.079 | 1354 | 1360 | 1365 | rVB2 | 17641 | 30818 | 1.72% | 0.235% |
| 47 | 11.185 | 1371 | 1378 | 1383 | rBV4 | 16153 | 33617 | 1.88% | 0.256% |
| 48 | 11.267 | 1388 | 1392 | 1398 | rVB2 | 42111 | 70984 | 3.97% | 0.541% |
| 49 | 11.526 | 1429 | 1436 | 1443 | rVB2 | 55120 | 97052 | 5.43% | 0.740% |
| 50 | 11.720 | 1463 | 1469 | 1475 | rBV2 | 49131 | 85020 | 4.76% | 0.649% |
| 51 | 11.802 | 1475 | 1483 | 1492 | rVB2 | 37844 | 76726 | 4.29% | 0.585% |
| 52 | 11.937 | 1498 | 1506 | 1511 | rVB2 | 19884 | 36342 | 2.03% | 0.277% |
| 53 | 11.996 | 1511 | 1516 | 1524 | rBV2 | 34618 | 59800 | 3.34% | 0.456% |
| 54 | 12.160 | 1539 | 1544 | 1550 | rVB3 | 42964 | 73675 | 4.12% | 0.562% |
| 55 | 12.272 | 1553 | 1563 | 1571 | rVV | 131494 | 228396 | 12.77% | 1.742% |
| 56 | 12.489 | 1593 | 1600 | 1605 | rBV | 135829 | 225840 | 12.63% | 1.723% |
| 57 | 12.572 | 1612 | 1614 | 1625 | rVB7 | 9059 | 22105 | 1.24% | 0.169% |
| 58 | 13.071 | 1692 | 1699 | 1706 | rVB | 609861 | 939121 | 52.53% | 7.164% |
| 59 | 13.318 | 1731 | 1741 | 1747 | rBV5 | 43991 | 105404 | 5.90% | 0.804% |
| 60 | 13.388 | 1749 | 1753 | 1760 | rVB4 | 11972 | 21135 | 1.18% | 0.161% |
| 61 | 13.482 | 1764 | 1769 | 1771 | rBV2 | 24552 | 41625 | 2.33% | 0.318% |
| 62 | 13.612 | 1783 | 1791 | 1793 | rBV2 | 72459 | 122227 | 6.84% | 0.932% |
| 63 | 13.770 | 1807 | 1818 | 1823 | rBV2 | 152733 | 291364 | 16.30% | 2.223% |
| 64 | 13.823 | 1823 | 1827 | 1838 | rVB | 77142 | 129135 | 7.22% | 0.985% |
| 65 | 14.005 | 1854 | 1858 | 1861 | rBV | 71209 | 102852 | 5.75% | 0.785% |
| 66 | 14.170 | 1878 | 1886 | 1893 | rBV2 | 51026 | 98607 | 5.52% | 0.752% |
| 67 | 14.446 | 1927 | 1933 | 1940 | rBV | 154223 | 244090 | 13.65% | 1.862% |
| 68 | 14.511 | 1940 | 1944 | 1947 | rBV3 | 16373 | 27787 | 1.55% | 0.212% |
| 69 | 14.663 | 1965 | 1970 | 1978 | rVB7 | 11560 | 27936 | 1.56% | 0.213% |
| 70 | 14.846 | 1996 | 2001 | 2007 | rVB4 | 38183 | 65315 | 3.65% | 0.498% |
| 71 | 14.922 | 2010 | 2014 | 2019 | rVB4 | 23629 | 32199 | 1.80% | 0.246% |
| 72 | 15.069 | 2029 | 2039 | 2044 | rBV4 | 25710 | 49408 | 2.76% | 0.377% |
| 73 | 15.122 | 2044 | 2048 | 2051 | rVB3 | 16510 | 23212 | 1.30% | 0.177% |
| 74 | 15.239 | 2061 | 2068 | 2071 | rBV7 | 12358 | 28764 | 1.61% | 0.219% |
| 75 | 15.274 | 2071 | 2074 | 2079 | rVB4 | 20241 | 28859 | 1.61% | 0.220% |
| 76 | 15.492 | 2106 | 2111 | 2116 | rVB3 | 37867 | 56883 | 3.18% | 0.434% |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 15.621 | 2128 | 2133 | 2136 | rBV | 40722 | 57314 | 3.21% | 0.437% |
| 78 | 15.656 | 2136 | 2139 | 2143 | rVB5 | 14636 | 22505 | 1.26% | 0.172% |
| 79 | 15.803 | 2158 | 2164 | 2172 | rVB2 | 43865 | 80374 | 4.50% | 0.613% |
| 80 | 15.938 | 2180 | 2187 | 2195 | rBV | 677149 | 1045022 | 58.45% | 7.971% |
| 81 | 16.549 | 2287 | 2291 | 2297 | rBV5 | 27784 | 49391 | 2.76% | 0.377% |
| 82 | 17.008 | 2365 | 2369 | 2376 | rVB6 | 16980 | 32448 | 1.81% | 0.248% |
| 83 | 17.190 | 2391 | 2400 | 2404 | rBV2 | 208658 | 335383 | 18.76% | 2.558% |
| 84 | 17.231 | 2404 | 2407 | 2411 | rVB2 | 24999 | 34018 | 1.90% | 0.259% |
| 85 | 17.713 | 2484 | 2489 | 2493 | rBV4 | 20423 | 36066 | 2.02% | 0.275% |
| 86 | 18.083 | 2544 | 2552 | 2562 | rBV4 | 61463 | 130959 | 7.32% | 0.999% |
| 87 | 18.947 | 2694 | 2699 | 2701 | rBV6 | 13158 | 19262 | 1.08% | 0.147% |
| 88 | 19.364 | 2766 | 2770 | 2773 | rBV5 | 13744 | 18171 | 1.02% | 0.139% |
| 89 | 19.804 | 2839 | 2845 | 2852 | rBV | 1345545 | 1787867 | 100.00% | 13.638% |
| 90 | 21.085 | 3057 | 3063 | 3072 | rBV9 | 22947 | 38853 | 2.17% | 0.296% |
| 91 | 21.408 | 3112 | 3118 | 3126 | rVB | 229378 | 352188 | 19.70% | 2.686% |
| 92 | 24.387 | 3615 | 3625 | 3635 | rBV2 | 142488 | 380002 | 21.25% | 2.899% |

Sum of corrected areas: 13109708

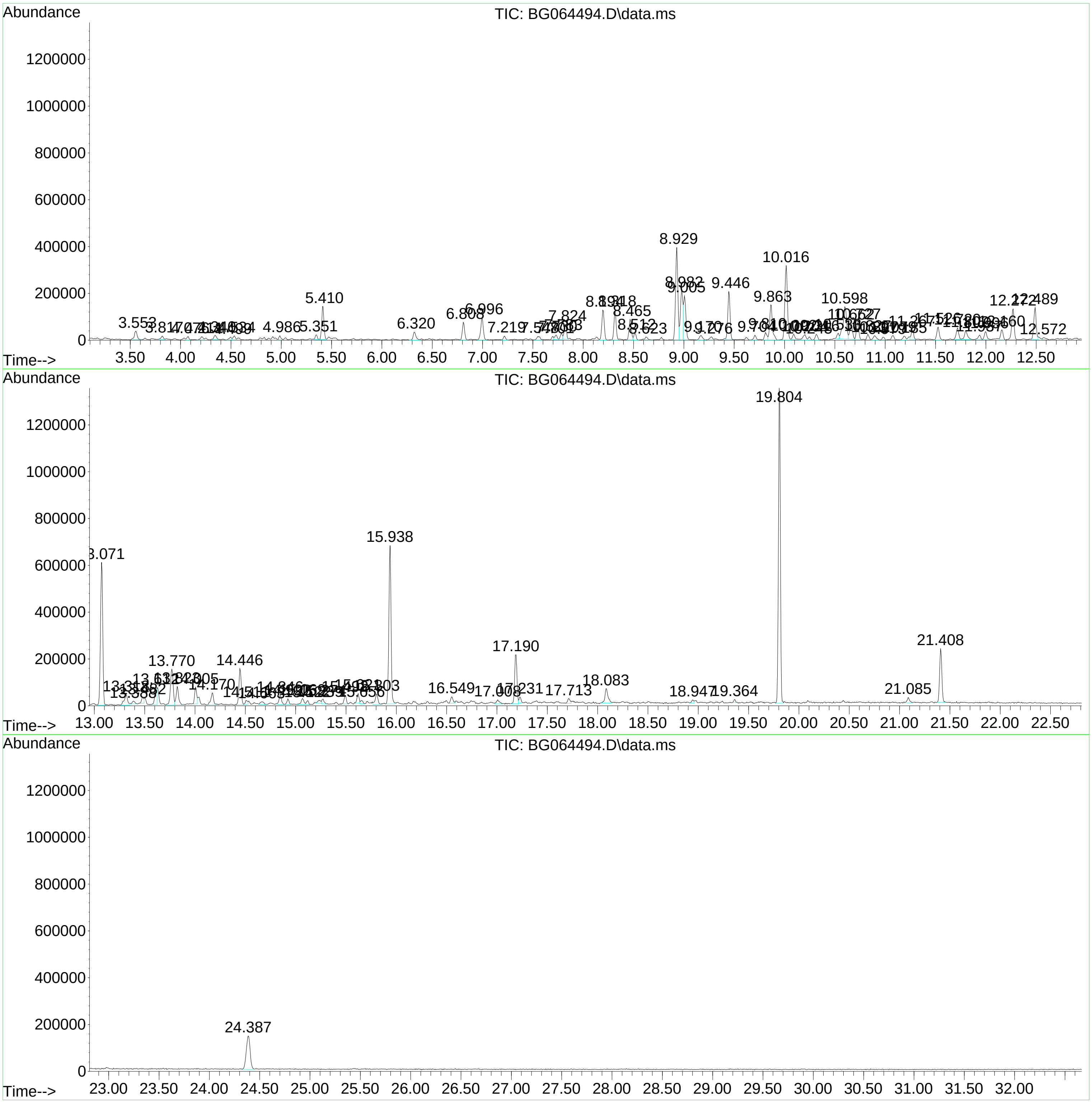
Sample Results: **BG064494.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

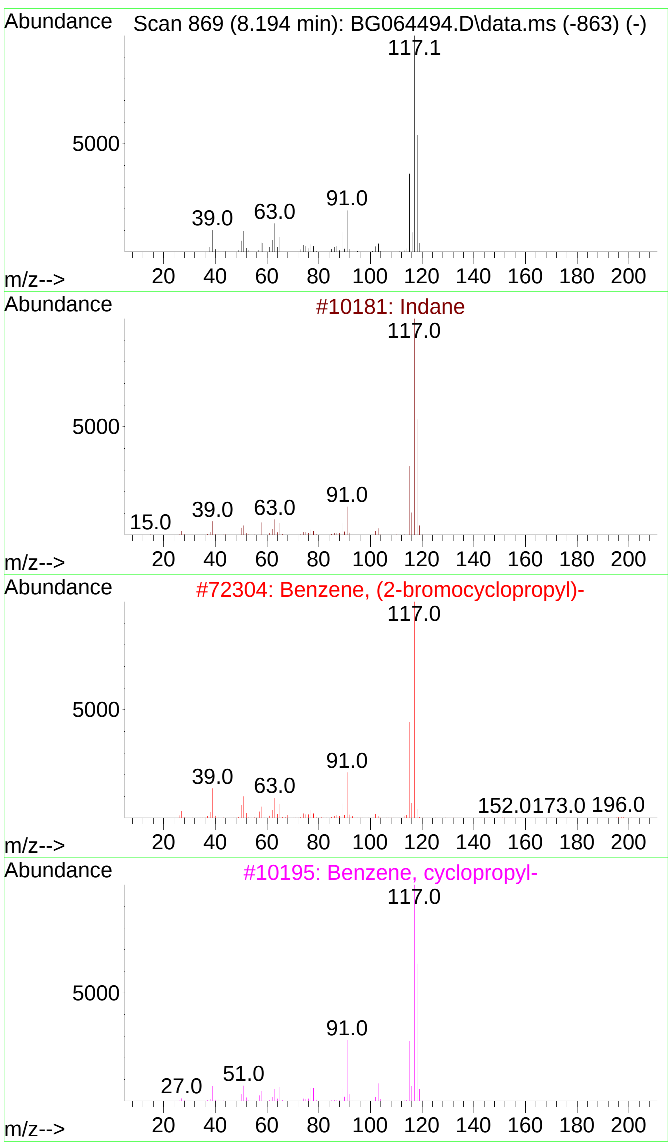
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

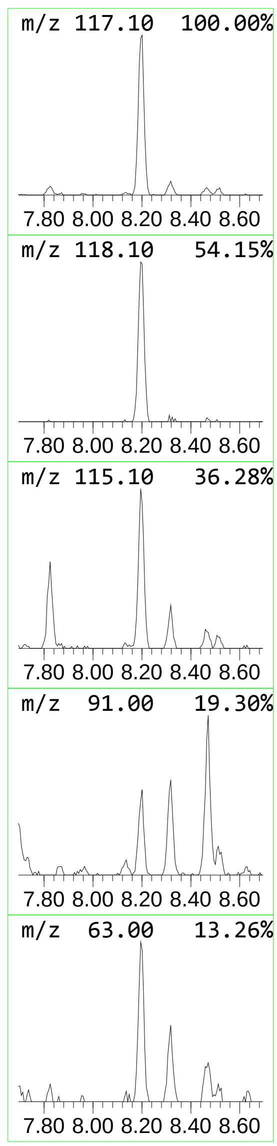
*********************************************************************

Peak Number 4 Indane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.194 | 43.03 ng | 215058 | 1,4-Dichlorobenzene-d4 | 7.824 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Benzene, (2-bromocyclopropyl)- | 196 | C9H9Br | 036617-02-4 | 64 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 59 |
| 4 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 53 |
| 5 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 53 |



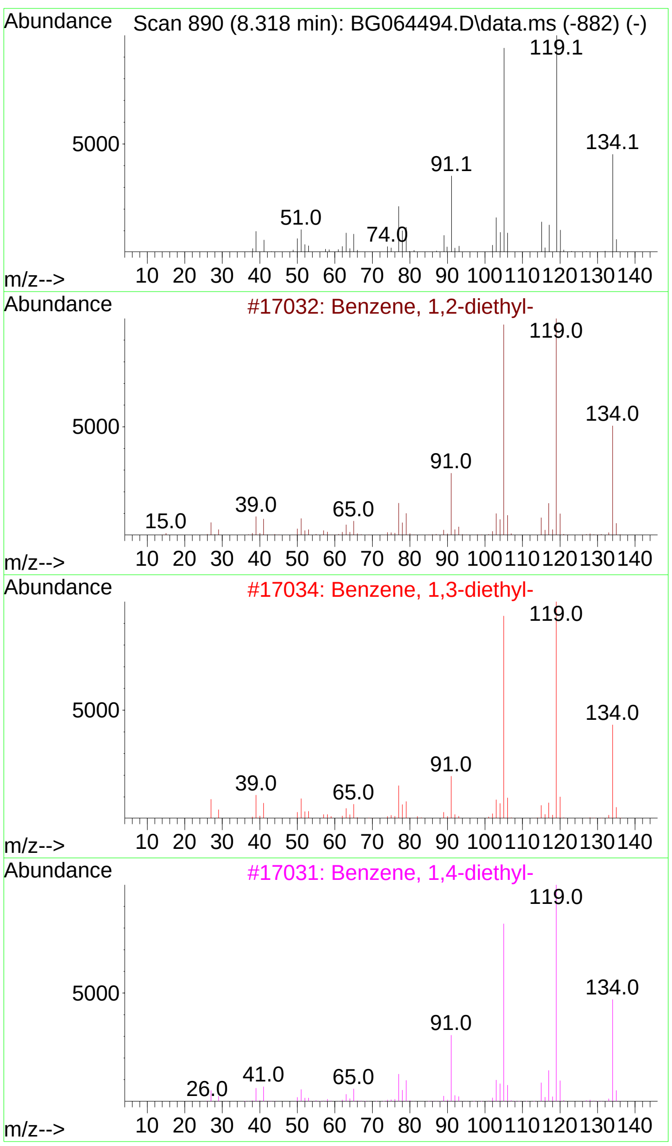
Library Search Compound Report

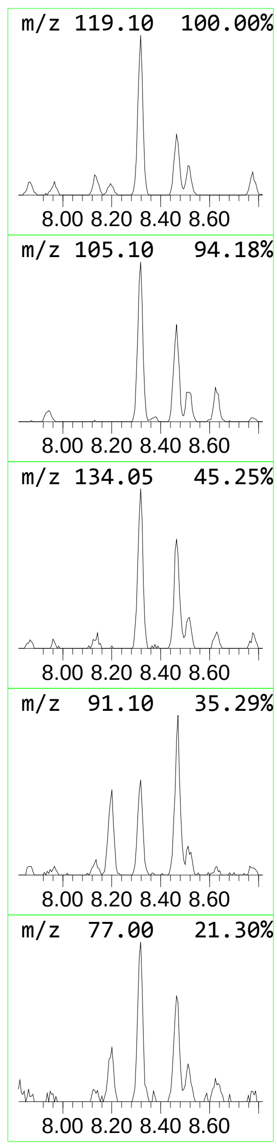
Sample Results: **BG064494.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

**Instrument :** BNA_G
**ClientSampleId :** MW4

```
*********************************************************************
Peak Number  5  Benzene, 1,2-diethyl-          Concentration Rank  3

  R.T.     EstConc          Area       Relative to ISTD         R.T.
---------------------------------------------------------------------
  8.318   38.85 ng         194121   1,4-Dichlorobenzene-d4      7.824

 Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
---------------------------------------------------------------------
 1 Benzene, 1,2-diethyl-               134 C10H14        000135-01-3 95
 2 Benzene, 1,3-diethyl-               134 C10H14        000141-93-5 95
 3 Benzene, 1,4-diethyl-               134 C10H14        000105-05-5 94
 4 Benzene, 1-ethyl-3,5-dimethyl-      134 C10H14        000934-74-7 87
 5 Benzene, 1-ethyl-2,3-dimethyl-      134 C10H14        000933-98-2 86
```



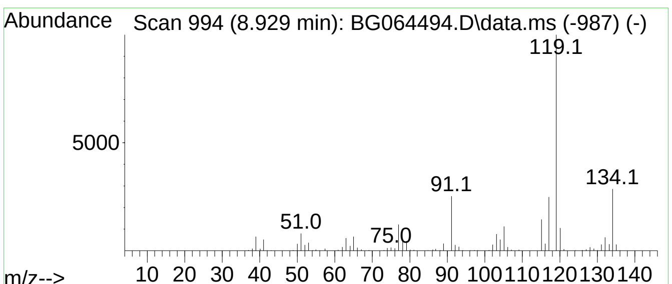
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

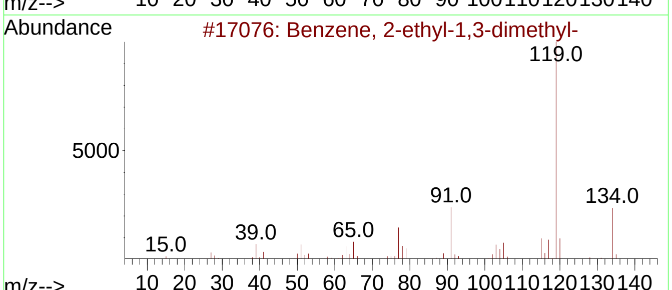
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

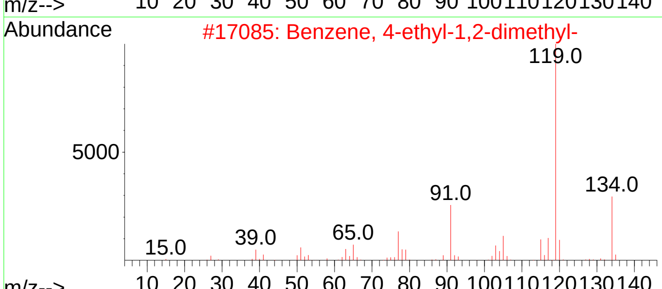
```
*********************************************************************
Peak Number  8  Benzene, 2-ethyl-1,3-dimethyl-  Concentration Rank  1
```

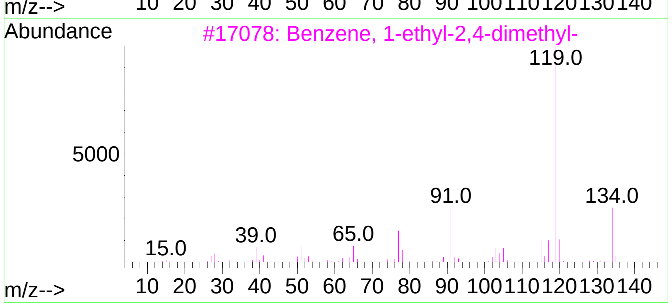
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.929 | 127.30 ng | 636165 | 1,4-Dichlorobenzene-d4 | 7.824 |

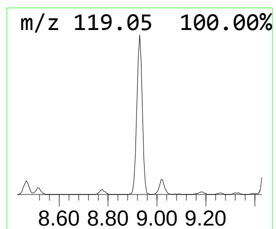
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 94 |
| 3 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 94 |
| 4 | p-Cymene | 134 | C10H14 | 000099-87-6 | 87 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 87 |

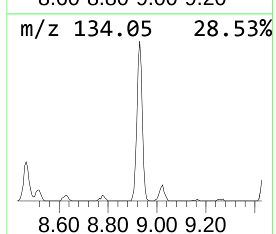


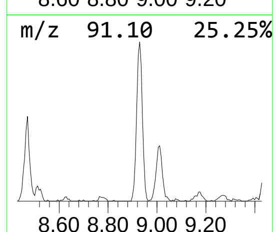



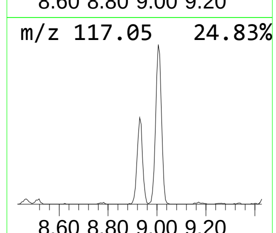



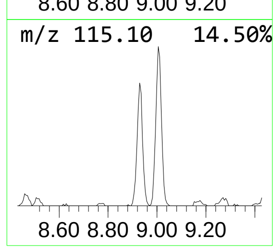



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

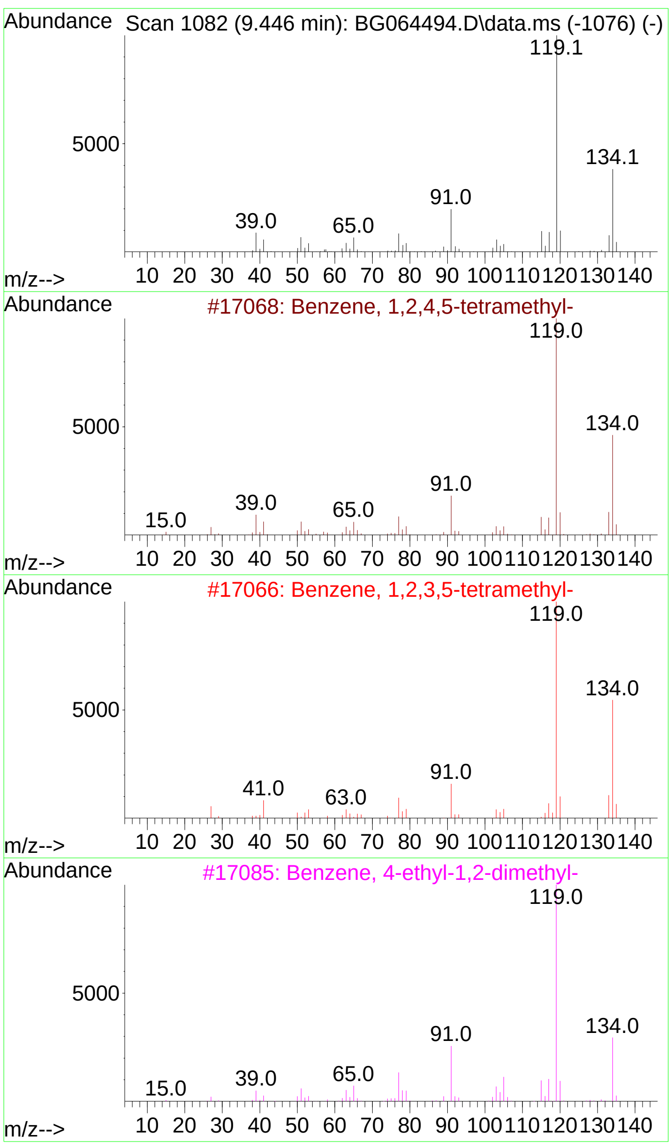
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

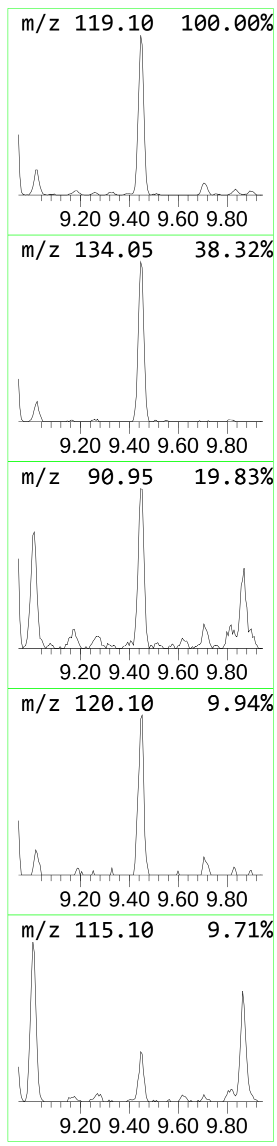
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number 10 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.446 | 18.95 ng | 326538 | Naphthalene-d8 | 10.609 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 91 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Library Search Compound Report

Sample Results: **BG064494.D**

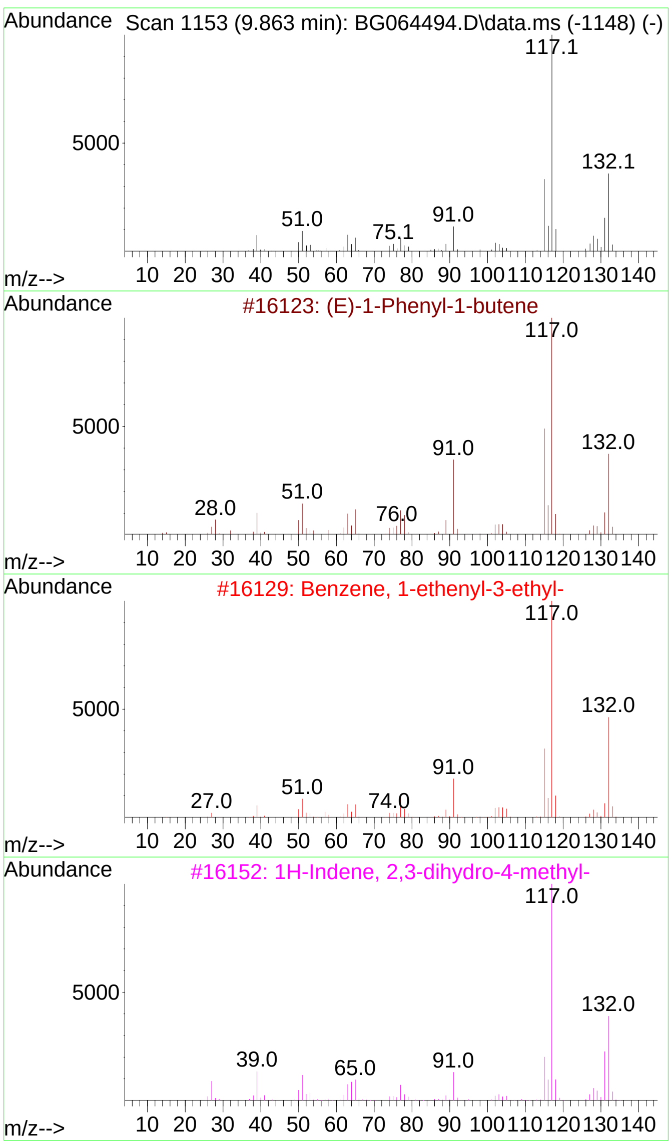
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

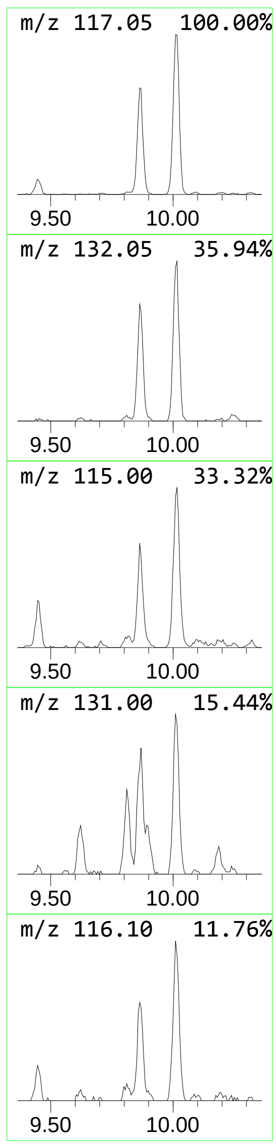
**Instrument :** BNA_G
**ClientSampleId :** MW4

```
*********************************************************************
Peak Number 11  (E)-1-Phenyl-1-butene          Concentration Rank  9
```

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.863 | 16.47 ng | 283678 | Naphthalene-d8 | 10.609 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-1-Phenyl-1-butene | 132 | C10H12 | 001005-64-7 | 94 |
| 2 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 90 |
| 3 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 87 |
| 4 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 87 |
| 5 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 87 |



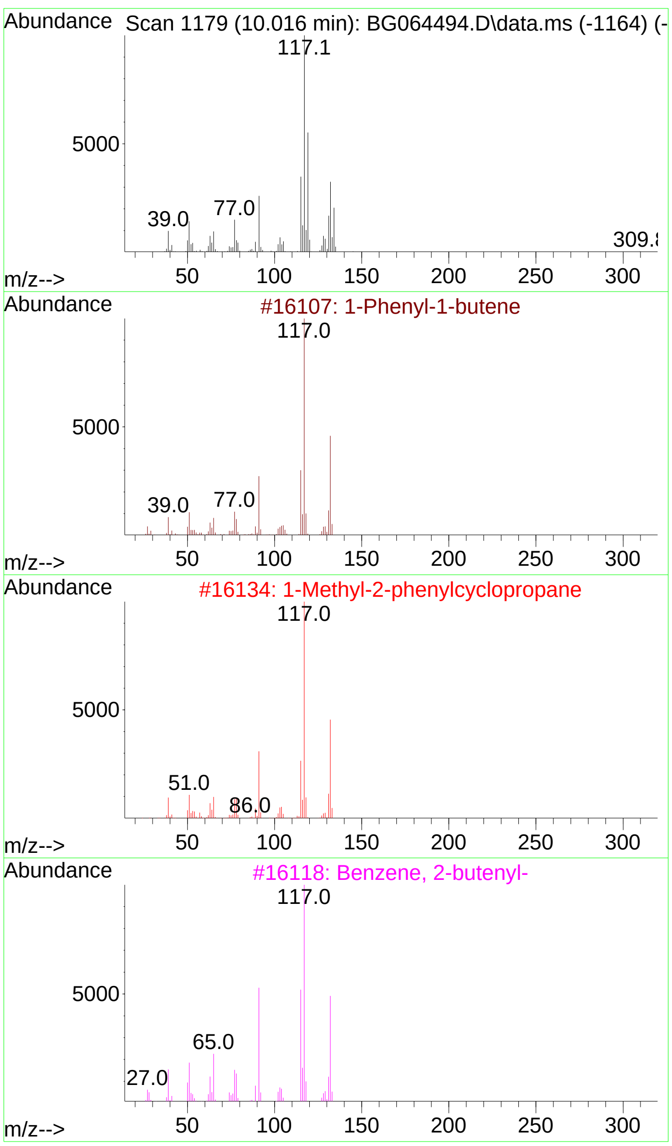



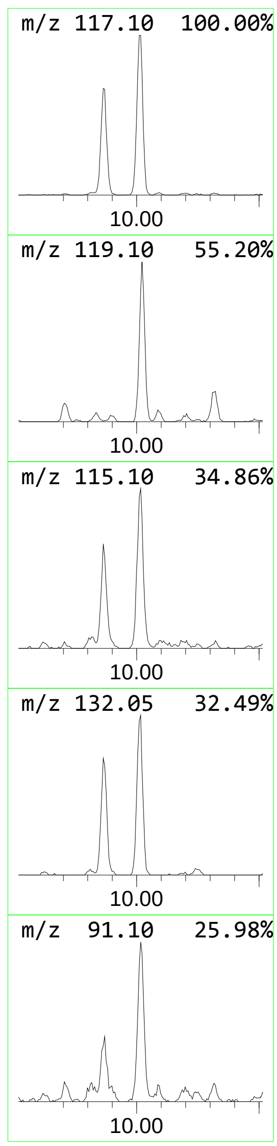
Sample Results: **BG064494.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

**Instrument :** BNA_G
**ClientSampleId :** MW4

```
**********************************************************************
Peak Number 12  1-Phenyl-1-butene               Concentration Rank  4

  R.T.     EstConc          Area       Relative to ISTD         R.T.
----------------------------------------------------------------------
 10.016   33.16 ng         571299    Naphthalene-d8            10.609

 Hit# of  5    Tentative ID                MW  MolForm       CAS#       Qual
----------------------------------------------------------------------
 1 1-Phenyl-1-butene                      132 C10H12        000824-90-8 93
 2 1-Methyl-2-phenylcyclopropane          132 C10H12        003145-76-4 91
 3 Benzene, 2-butenyl-                    132 C10H12        001560-06-1 89
 4 Benzene, (2-methyl-1-propenyl)-        132 C10H12        000768-49-0 87
 5 Benzene, 1-methyl-4-(2-propenyl)-      132 C10H12        003333-13-9 70
```

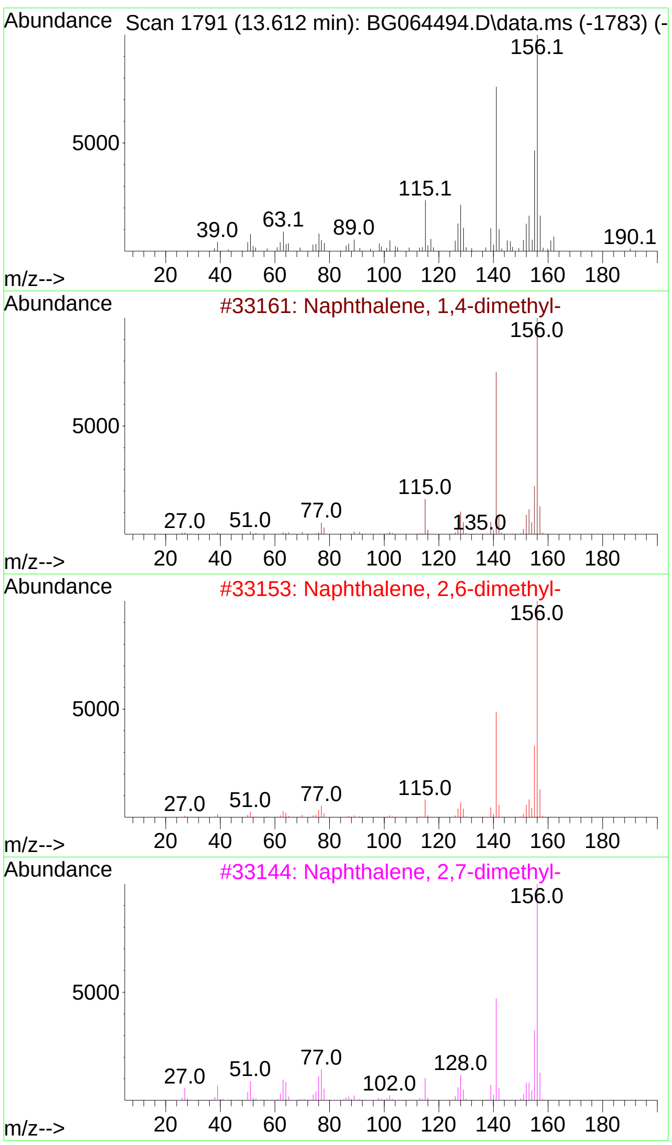


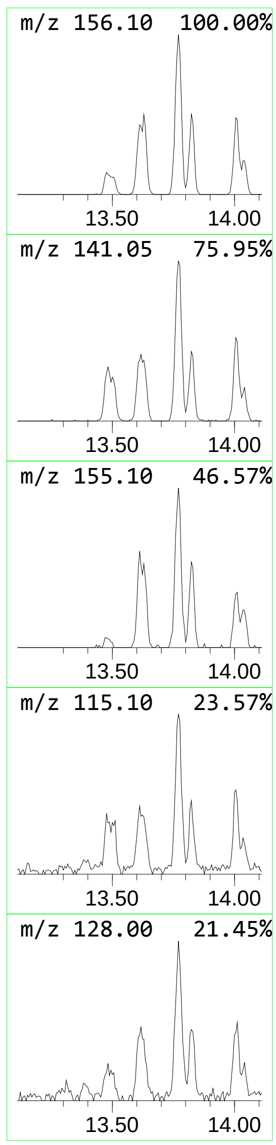



```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

**Instrument :** BNA_G
**ClientSampleId :** MW4

```
*********************************************************************
Peak Number 15  Naphthalene, 1,4-dimethyl-      Concentration Rank 13

  R.T.     EstConc          Area       Relative to ISTD         R.T.
---------------------------------------------------------------------
 13.612   10.01 ng         122227   Acenaphthene-d10           14.446

 Hit# of  5     Tentative ID              MW  MolForm       CAS#       Qual
---------------------------------------------------------------------
 1 Naphthalene, 1,4-dimethyl-          156 C12H12        000571-58-4 95
 2 Naphthalene, 2,6-dimethyl-          156 C12H12        000581-42-0 94
 3 Naphthalene, 2,7-dimethyl-          156 C12H12        000582-16-1 94
 4 Naphthalene, 1,6-dimethyl-          156 C12H12        000575-43-9 93
 5 Naphthalene, 1,3-dimethyl-          156 C12H12        000575-41-7 93
```



Library Search Compound Report

Sample Results: **BG064494.D**

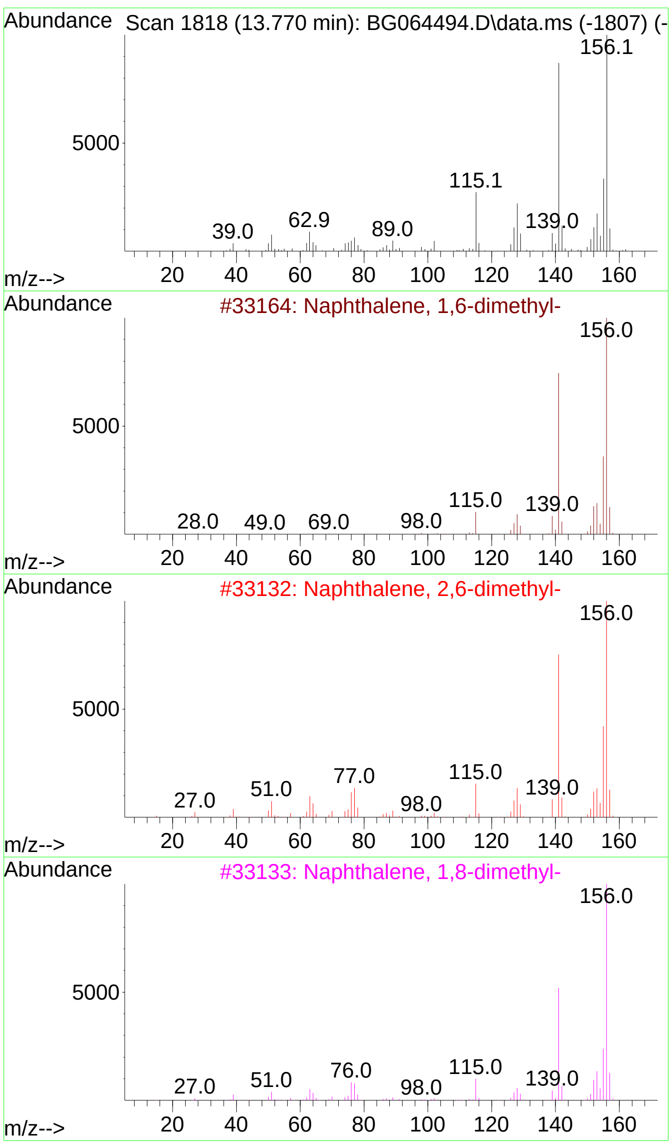
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On    :  3 Oct 2025  19:40
Operator  : RC/JU
Sample    : Q3274-01
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

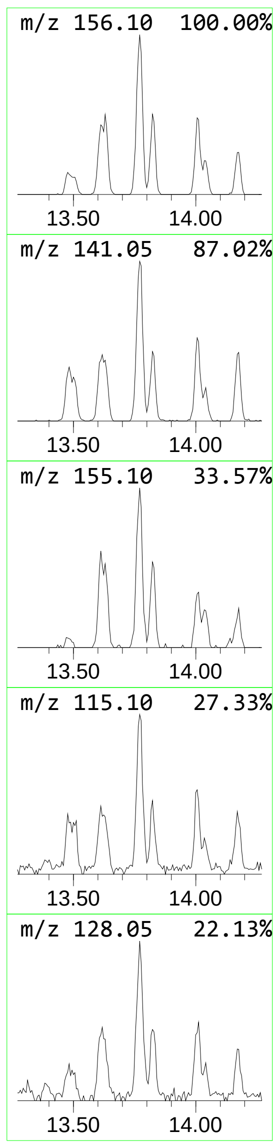
**Instrument :**
BNA_G
**ClientSampleId :**
MW4

```
*********************************************************************
Peak Number 16  Naphthalene, 1,6-dimethyl-      Concentration Rank  6
```

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.770 | 23.87 ng | 291364 | Acenaphthene-d10 | 14.446 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 95 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 94 |
| 3 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 91 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 91 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

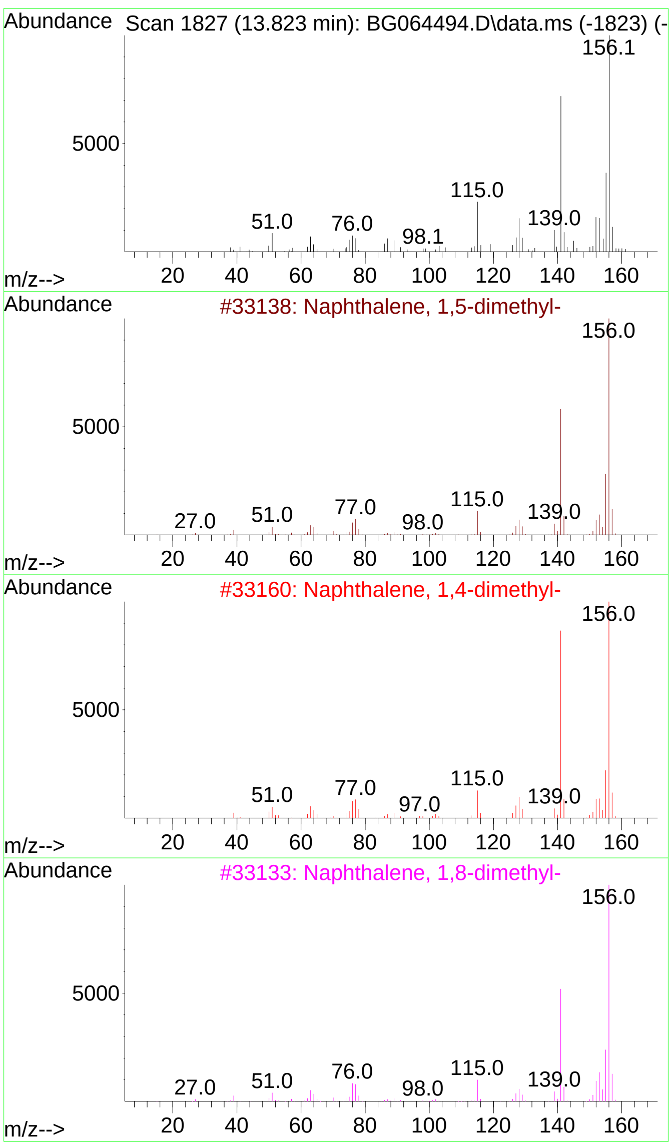
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

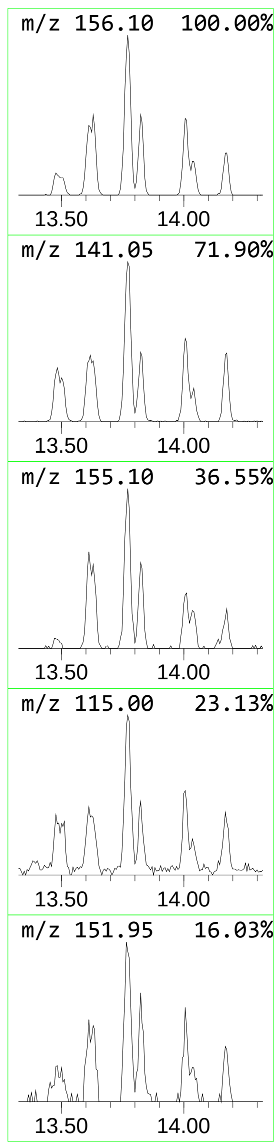
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number 17 Naphthalene, 1,5-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.823 | 10.58 ng | 129135 | Acenaphthene-d10 | 14.446 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 95 |
| 2 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 94 |
| 3 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 94 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 93 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

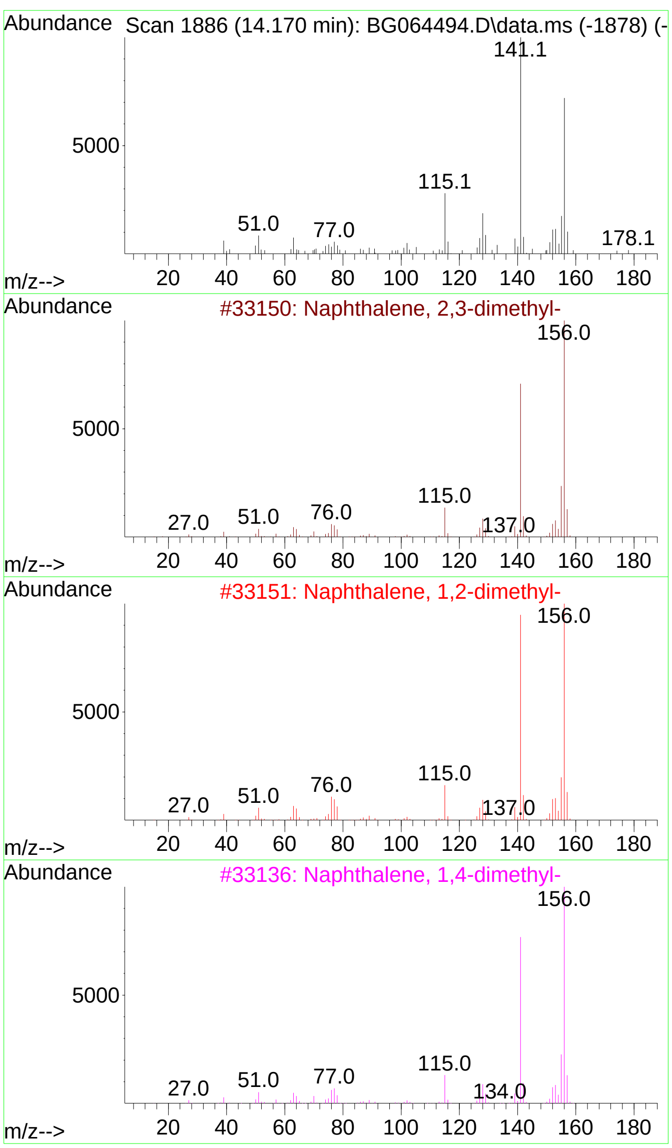
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

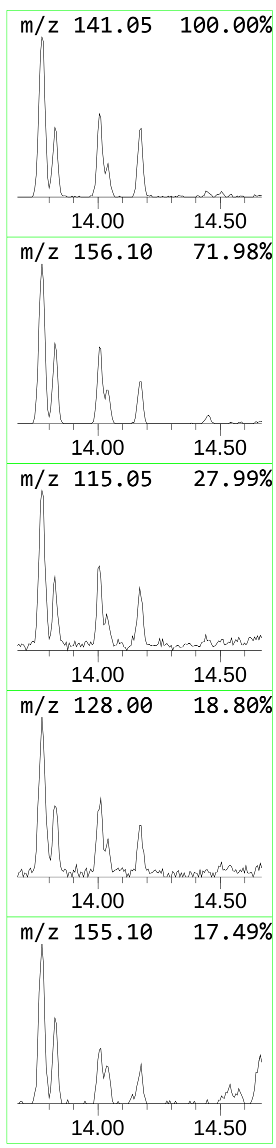
*********************************************************************

Peak Number 19 Naphthalene, 2,3-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.170 | 8.08 ng | 98607 | Acenaphthene-d10 | 14.446 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 91 |
| 2 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 90 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 90 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 90 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

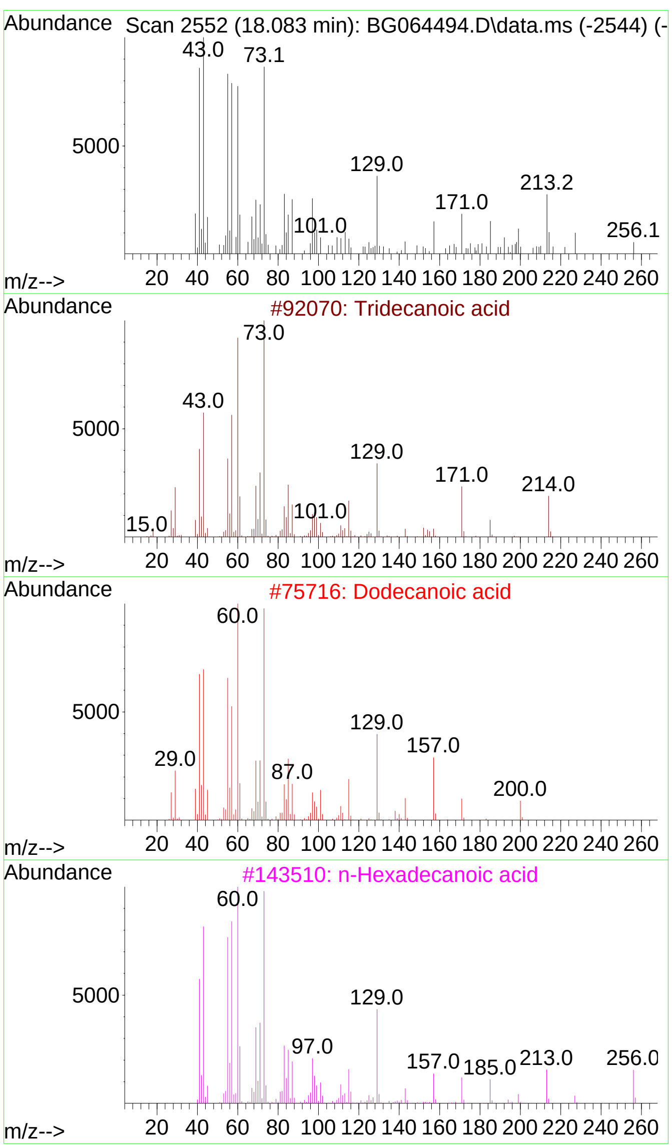
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

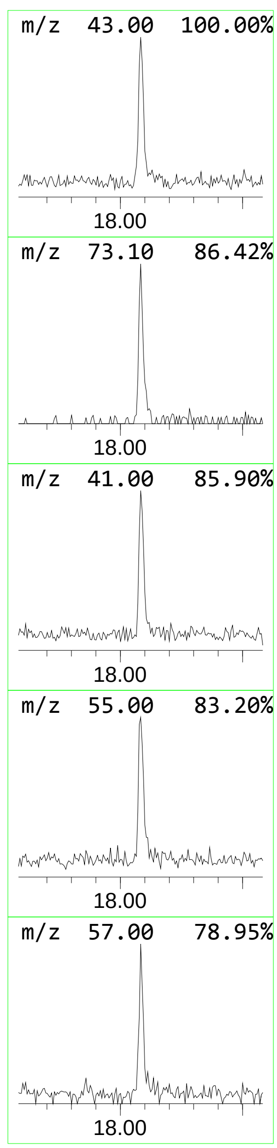
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number 20 Tridecanoic acid Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.083 | 7.81 ng | 130959 | Phenanthrene-d10 | 17.190 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 2 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 58 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 58 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 52 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 52 |



Sample Results: **BG064494.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064494.D
Acq On : 3 Oct 2025 19:40
Operator : RC/JU
Sample : Q3274-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
MW4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Indane | 8.194 | 43.0 | ng | 215058 | 1 | 7.824 | 99946 | 20.0 |
| Benzene, 1,2-di... | 8.318 | 38.9 | ng | 194121 | 1 | 7.824 | 99946 | 20.0 |
| Benzene, 2-ethy... | 8.929 | 127.3 | ng | 636165 | 1 | 7.824 | 99946 | 20.0 |
| Benzene, 1,2,4,... | 9.446 | 18.9 | ng | 326538 | 2 | 10.609 | 344557 | 20.0 |
| (E)-1-Phenyl-1-... | 9.863 | 16.5 | ng | 283678 | 2 | 10.609 | 344557 | 20.0 |
| 1-Phenyl-1-butene | 10.016 | 33.2 | ng | 571299 | 2 | 10.609 | 344557 | 20.0 |
| Naphthalene, 1,... | 13.612 | 10.0 | ng | 122227 | 3 | 14.446 | 244090 | 20.0 |
| Naphthalene, 1,... | 13.770 | 23.9 | ng | 291364 | 3 | 14.446 | 244090 | 20.0 |
| Naphthalene, 1,... | 13.823 | 10.6 | ng | 129135 | 3 | 14.446 | 244090 | 20.0 |
| Naphthalene, 2,... | 14.170 | 8.1 | ng | 98607 | 3 | 14.446 | 244090 | 20.0 |
| Tridecanoic acid | 18.083 | 7.8 | ng | 130959 | 4 | 17.190 | 335383 | 20.0 |

# CALIBRATION SUMMARY

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance    Contract: GENV01

Lab Code: ACE    SDG No.: Q3274

Instrument ID: BNA_G    Calibration Date(s): 10/02/2025    10/02/2025

Calibration Time(s): 09:01    15:49

LAB FILE ID: RRF2.5 = BG064473.D    RRF005 = BG064474.D    RRF020 = BG064476.D
RRF040 = BG064477.D    RRF050 = BG064478.D    RRF060 = BG064479.D

| COMPOUND | RRF2.5 | RRF005 | RRF020 | RRF040 | RRF050 | RRF060 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.066 | 1.053 | 1.195 | 1.071 | 1.108 | 1.081 | 5.3 |
| Benzaldehyde | | | 1.039 | 1.527 | 1.152 | 1.548 | 1.290 | 18.7 |
| Phenol-d6 | | 1.395 | 1.446 | 1.631 | 1.434 | 1.496 | 1.452 | 6.1 |
| bis(2-Chloroethyl)ether | | 1.117 | 1.002 | 1.134 | 1.000 | 1.064 | 1.038 | 6.6 |
| 2,2-oxybis(1-Chloropropane) | | 1.720 | 1.657 | 1.804 | 1.650 | 1.708 | 1.672 | 4.8 |
| Acetophenone | | 0.476 | 0.477 | 0.516 | 0.491 | 0.495 | 0.484 | 4.2 |
| n-Nitroso-di-n-propylamine | 0.813 | 1.008 | 1.006 | 1.096 | 0.959 | 1.048 | 0.971 | 9.1 |
| Nitrobenzene-d5 | | 0.360 | 0.378 | 0.396 | 0.369 | 0.381 | 0.372 | 3.8 |
| Hexachloroethane | | 0.586 | 0.534 | 0.604 | 0.562 | 0.566 | 0.575 | 5.9 |
| Nitrobenzene | | 0.403 | 0.352 | 0.395 | 0.364 | 0.377 | 0.371 | 5.7 |
| Isophorone | | 0.672 | 0.674 | 0.721 | 0.660 | 0.686 | 0.674 | 3.6 |
| bis(2-Chloroethoxy)methane | | 0.320 | 0.361 | 0.375 | 0.336 | 0.352 | 0.343 | 5.9 |
| Naphthalene | | 1.062 | 1.013 | 1.107 | 0.995 | 1.041 | 1.030 | 4.3 |
| 4-Chloroaniline | | 0.392 | 0.373 | 0.417 | 0.388 | 0.406 | 0.395 | 3.5 |
| Hexachlorobutadiene | | 0.331 | 0.308 | 0.316 | 0.296 | 0.300 | 0.304 | 4.9 |
| Caprolactam | | | 0.120 | 0.115 | 0.111 | 0.110 | 0.112 | 4.4 |
| 2-Methylnaphthalene | | 0.783 | 0.790 | 0.843 | 0.778 | 0.799 | 0.791 | 3.2 |
| Hexachlorocyclopentadiene | | | 0.296 | 0.363 | 0.356 | 0.378 | 0.338 | 12.0 |
| 2-Fluorobiphenyl | | 1.355 | 1.346 | 1.434 | 1.325 | 1.389 | 1.357 | 3.1 |
| 1,1-Biphenyl | | 1.439 | 1.417 | 1.521 | 1.434 | 1.484 | 1.438 | 3.4 |
| 2-Chloronaphthalene | | 1.006 | 1.046 | 1.153 | 1.056 | 1.106 | 1.074 | 4.6 |
| 2-Nitroaniline | | 0.301 | 0.371 | 0.397 | 0.386 | 0.385 | 0.367 | 8.6 |
| Dimethylphthalate | | 1.564 | 1.582 | 1.624 | 1.531 | 1.586 | 1.566 | 2.7 |
| Acenaphthylene | | 1.591 | 1.573 | 1.704 | 1.574 | 1.638 | 1.594 | 3.7 |
| 2,6-Dinitrotoluene | | 0.292 | 0.335 | 0.337 | 0.333 | 0.345 | 0.326 | 5.4 |
| 3-Nitroaniline | | 0.279 | 0.300 | 0.319 | 0.315 | 0.303 | 0.301 | 4.5 |
| Acenaphthene | | 1.108 | 1.086 | 1.159 | 1.106 | 1.138 | 1.108 | 3.0 |
| Dibenzofuran | | 1.837 | 1.800 | 1.909 | 1.821 | 1.872 | 1.829 | 2.8 |
| 2,4-Dinitrotoluene | | 0.481 | 0.488 | 0.527 | 0.513 | 0.506 | 0.499 | 3.6 |
| Diethylphthalate | | 1.747 | 1.679 | 1.730 | 1.675 | 1.663 | 1.680 | 3.2 |
| 4-Chlorophenyl-phenylether | | 0.866 | 0.839 | 0.868 | 0.817 | 0.819 | 0.830 | 3.4 |
| Fluorene | | 1.518 | 1.535 | 1.601 | 1.488 | 1.532 | 1.520 | 2.9 |
| 4-Nitroaniline | | 0.229 | 0.331 | 0.334 | 0.345 | 0.340 | 0.314 | 13.0 |
| n-Nitrosodiphenylamine | | 0.540 | 0.534 | 0.569 | 0.508 | 0.541 | 0.534 | 3.6 |

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01

Lab Code: ACE SDG No.: Q3274

Instrument ID: BNA_G Calibration Date(s): 10/02/2025 10/02/2025

Calibration Time(s): 09:01 15:49

LAB FILE ID: RRF2.5 = BG064473.D RRF005 = BG064474.D RRF020 = BG064476.D
RRF040 = BG064477.D RRF050 = BG064478.D RRF060 = BG064479.D

| COMPOUND | RRF2.5 | RRF005 | RRF020 | RRF040 | RRF050 | RRF060 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | | 0.364 | 0.367 | 0.381 | 0.364 | 0.361 | 0.363 | 2.9 |
| 4-Bromophenyl-phenylether | | 0.235 | 0.227 | 0.253 | 0.224 | 0.237 | 0.235 | 4.2 |
| Hexachlorobenzene | | 0.256 | 0.272 | 0.288 | 0.260 | 0.280 | 0.269 | 4.4 |
| Atrazine | | 0.237 | 0.247 | 0.250 | 0.232 | 0.239 | 0.238 | 4.3 |
| Phenanthrene | | 1.072 | 1.055 | 1.111 | 1.002 | 1.050 | 1.046 | 3.6 |
| Anthracene | | 1.045 | 1.044 | 1.130 | 1.001 | 1.068 | 1.049 | 3.9 |
| Carbazole | | 0.883 | 0.904 | 0.987 | 0.877 | 0.921 | 0.907 | 4.2 |
| Di-n-butylphthalate | | 1.096 | 1.105 | 1.189 | 1.076 | 1.131 | 1.107 | 3.7 |
| Fluoranthene | | 1.269 | 1.272 | 1.330 | 1.192 | 1.253 | 1.250 | 3.8 |
| Pyrene | | 1.295 | 1.316 | 1.392 | 1.242 | 1.281 | 1.298 | 4.2 |
| Terphenyl-d14 | | 1.067 | 1.069 | 1.123 | 1.030 | 1.044 | 1.057 | 3.6 |
| Butylbenzylphthalate | | 0.437 | 0.464 | 0.497 | 0.447 | 0.479 | 0.460 | 4.8 |
| 3,3-Dichlorobenzidine | | | 0.431 | 0.458 | 0.423 | 0.443 | 0.432 | 3.6 |
| Benzo(a)anthracene | | 1.280 | 1.285 | 1.353 | 1.238 | 1.291 | 1.277 | 3.1 |
| Chrysene | | 1.226 | 1.195 | 1.297 | 1.173 | 1.210 | 1.211 | 3.5 |
| Bis(2-ethylhexyl)phthalate | | 0.605 | 0.640 | 0.692 | 0.641 | 0.670 | 0.649 | 4.3 |
| Di-n-octyl phthalate | | | 1.050 | 1.153 | 1.073 | 1.125 | 1.091 | 3.7 |
| Benzo(b)fluoranthene | | 1.077 | 1.171 | 1.212 | 1.142 | 1.169 | 1.138 | 4.4 |
| Benzo(k)fluoranthene | | 1.139 | 1.145 | 1.233 | 1.123 | 1.156 | 1.146 | 4.0 |
| Benzo(a)pyrene | | 1.017 | 1.059 | 1.122 | 1.031 | 1.075 | 1.049 | 3.9 |
| Indeno(1,2,3-cd)pyrene | | 1.368 | 1.378 | 1.493 | 1.387 | 1.431 | 1.392 | 4.0 |
| Dibenzo(a,h)anthracene | | 1.047 | 1.121 | 1.190 | 1.115 | 1.151 | 1.113 | 4.6 |
| Benzo(g,h,i)perylene | | 1.059 | 1.088 | 1.153 | 1.069 | 1.104 | 1.082 | 3.4 |
| 1,2,4,5-Tetrachlorobenzene | | 0.622 | 0.622 | 0.708 | 0.640 | 0.678 | 0.646 | 5.6 |
| 1,4-Dioxane | | 0.530 | 0.447 | 0.438 | 0.398 | 0.386 | 0.427 | 12.1 |

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG100225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Oct 02 16:40:42 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064473.D 5 =BG064474.D 10 =BG064481.D 20 =BG064476.D 40 =BG064477.D 50 =BG064478.D 60 =BG064479.D 80 =BG0644
80.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | -----------------ISTD--------------------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.530 | 0.412 | 0.447 | 0.438 | 0.398 | 0.386 | 0.381 | 0.427 | 12.10 |
| 3) | | Pyridine | | 1.225 | 1.151 | 1.147 | 1.236 | 1.102 | 1.095 | 1.086 | 1.149 | 5.33 |
| 4) | | n-Nitrosodimet... | | | 0.854 | 0.790 | 0.863 | 0.833 | 0.843 | 0.814 | 0.833 | 3.24 |
| 5) | S | 2-Fluorophenol | | 1.066 | 1.018 | 1.053 | 1.195 | 1.071 | 1.108 | 1.053 | 1.081 | 5.26 |
| 6) | | Aniline | | 1.913 | 1.738 | 1.827 | 2.020 | 1.772 | 1.823 | 1.729 | 1.832 | 5.68 |
| 7) | S | Phenol-d6 | | 1.395 | 1.373 | 1.446 | 1.631 | 1.434 | 1.496 | 1.391 | 1.452 | 6.12 |
| 8) | | 2-Chlorophenol | | 1.387 | 1.264 | 1.312 | 1.455 | 1.264 | 1.336 | 1.271 | 1.327 | 5.45 |
| 9) | | Benzaldehyde | | | 1.437 | 1.039 | 1.527 | 1.146 | 1.548 | 1.037 | 1.289 | 18.76 |
| 10) | C | Phenol | | 1.518 | 1.397 | 1.530 | 1.683 | 1.517 | 1.583 | 1.496 | 1.532 | 5.68 |
| 11) | | bis(2-Chloroet... | | 1.117 | 0.953 | 1.002 | 1.134 | 1.000 | 1.064 | 0.992 | 1.038 | 6.61 |
| 12) | | 1,3-Dichlorobe... | | 1.558 | 1.459 | 1.396 | 1.582 | 1.385 | 1.418 | 1.363 | 1.452 | 5.97 |
| 13) | C | 1,4-Dichlorobe... | | 1.506 | 1.435 | 1.452 | 1.581 | 1.421 | 1.421 | 1.383 | 1.457 | 4.57 |
| 14) | | 1,2-Dichlorobe... | | 1.583 | 1.389 | 1.434 | 1.533 | 1.377 | 1.399 | 1.335 | 1.436 | 6.24 |
| 15) | | Benzyl Alcohol | | | 1.224 | 1.300 | 1.447 | 1.342 | 1.399 | 1.312 | 1.337 | 5.87 |
| 16) | | 2,2'-oxybis(1-... | | 1.720 | 1.610 | 1.657 | 1.804 | 1.650 | 1.708 | 1.558 | 1.672 | 4.80 |
| 17) | | 2-Methylphenol | | 1.105 | 1.063 | 1.087 | 1.215 | 1.076 | 1.143 | 1.077 | 1.109 | 4.81 |
| 18) | | Hexachloroethane | | 0.586 | 0.630 | 0.534 | 0.604 | 0.562 | 0.566 | 0.544 | 0.575 | 5.87 |
| 19) | P | n-Nitroso-di-n... | 0.813 | 1.008 | 0.913 | 1.006 | 1.096 | 0.959 | 1.048 | 0.926 | 0.971 | 9.10 |
| 20) | | 3+4-Methylphenols | | | 1.472 | 1.510 | 1.700 | 1.492 | 1.622 | 1.494 | 1.548 | 5.91 |
| 21) | I | Naphthalene-d8 | -----------------ISTD--------------------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.476 | 0.450 | 0.477 | 0.516 | 0.491 | 0.495 | 0.486 | 0.484 | 4.21 |
| 23) | S | Nitrobenzene-d5 | | 0.360 | 0.352 | 0.378 | 0.396 | 0.369 | 0.381 | 0.369 | 0.372 | 3.84 |
| 24) | | Nitrobenzene | | 0.403 | 0.348 | 0.352 | 0.395 | 0.364 | 0.377 | 0.358 | 0.371 | 5.73 |
| 25) | | Isophorone | | 0.672 | 0.654 | 0.674 | 0.721 | 0.660 | 0.686 | 0.650 | 0.674 | 3.59 |
| 26) | C | 2-Nitrophenol | | 0.197 | 0.169 | 0.181 | 0.192 | 0.185 | 0.188 | 0.181 | 0.185 | 4.93 |
| 27) | | 2,4-Dimethylph... | | 0.277 | 0.257 | 0.279 | 0.299 | 0.285 | 0.298 | 0.281 | 0.282 | 4.97 |
| 28) | | bis(2-Chloroet... | | 0.320 | 0.320 | 0.361 | 0.375 | 0.336 | 0.352 | 0.341 | 0.343 | 5.92 |
| 29) | C | 2,4-Dichloroph... | | 0.323 | 0.305 | 0.321 | 0.343 | 0.322 | 0.336 | 0.332 | 0.326 | 3.78 |
| 30) | | 1,2,4-Trichlor... | | 0.383 | 0.333 | 0.360 | 0.377 | 0.339 | 0.349 | 0.347 | 0.356 | 5.27 |
| 31) | | Naphthalene | | 1.062 | 0.980 | 1.013 | 1.107 | 0.995 | 1.041 | 1.011 | 1.030 | 4.26 |
| 32) | | Benzoic acid | | | 0.149 | 0.198 | 0.230 | 0.240 | 0.239 | 0.243 | 0.216 | 17.02 |
| 33) | | 4-Chloroaniline | | 0.392 | 0.398 | 0.373 | 0.417 | 0.388 | 0.406 | 0.392 | 0.395 | 3.53 |
| 34) | C | Hexachlorobuta... | | 0.331 | 0.289 | 0.308 | 0.316 | 0.296 | 0.300 | 0.291 | 0.304 | 4.94 |
| 35) | | Caprolactam | | | 0.108 | 0.120 | 0.115 | 0.111 | 0.110 | 0.107 | 0.112 | 4.36 |
| 36) | C | 4-Chloro-3-met... | | 0.395 | 0.381 | 0.392 | 0.418 | 0.390 | 0.405 | 0.395 | 0.397 | 3.01 |
| 37) | | 2-Methylnaphth... | | 0.783 | 0.771 | 0.790 | 0.843 | 0.778 | 0.799 | 0.770 | 0.791 | 3.18 |
| 38) | | 1-Methylnaphth... | | 0.837 | 0.782 | 0.782 | 0.825 | 0.750 | 0.784 | 0.758 | 0.788 | 4.08 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG100225.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------------ISTD-------------------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.622 | 0.604 | 0.622 | 0.708 | 0.640 | 0.678 | 0.646 | 0.646 | 5.60 |
| 41) | P | Hexachlorocycl... | | 0.279 | 0.296 | 0.363 | 0.356 | 0.378 | 0.356 | 0.338 | 11.95 |
| 42) | S | 2,4,6-Tribromo... | 0.364 | 0.352 | 0.367 | 0.381 | 0.364 | 0.361 | 0.349 | 0.363 | 2.89 |
| 43) | C | 2,4,6-Trichlor... | 0.391 | 0.390 | 0.396 | 0.445 | 0.416 | 0.436 | 0.414 | 0.413 | 5.30 |
| 44) | | 2,4,5-Trichlor... | 0.451 | 0.452 | 0.430 | 0.486 | 0.465 | 0.473 | 0.470 | 0.461 | 3.93 |
| 45) | S | 2-Fluorobiphenyl | 1.355 | 1.338 | 1.346 | 1.434 | 1.325 | 1.389 | 1.310 | 1.357 | 3.11 |
| 46) | | 1,1'-Biphenyl | 1.439 | 1.388 | 1.417 | 1.521 | 1.434 | 1.484 | 1.387 | 1.438 | 3.42 |
| 47) | | 2-Chloronaphth... | 1.006 | 1.104 | 1.046 | 1.153 | 1.056 | 1.106 | 1.046 | 1.074 | 4.61 |
| 48) | | 2-Nitroaniline | 0.301 | 0.362 | 0.371 | 0.397 | 0.386 | 0.385 | 0.365 | 0.367 | 8.60 |
| 49) | | Acenaphthylene | 1.591 | 1.534 | 1.573 | 1.704 | 1.574 | 1.638 | 1.546 | 1.594 | 3.68 |
| 50) | | Dimethylphthalate | 1.564 | 1.584 | 1.582 | 1.624 | 1.531 | 1.586 | 1.493 | 1.566 | 2.72 |
| 51) | | 2,6-Dinitrotol... | 0.292 | 0.326 | 0.335 | 0.337 | 0.333 | 0.345 | 0.316 | 0.326 | 5.43 |
| 52) | C | Acenaphthene | 1.108 | 1.099 | 1.086 | 1.159 | 1.106 | 1.138 | 1.058 | 1.108 | 2.98 |
| 53) | | 3-Nitroaniline | 0.279 | 0.294 | 0.300 | 0.319 | 0.315 | 0.303 | 0.296 | 0.301 | 4.50 |
| 54) | P | 2,4-Dinitrophenol | | 0.265 | 0.270 | 0.207 | 0.228 | 0.229 | 0.220 | 0.237 | 10.76 |
| 55) | | Dibenzofuran | 1.837 | 1.810 | 1.800 | 1.909 | 1.821 | 1.872 | 1.753 | 1.829 | 2.77 |
| 56) | P | 4-Nitrophenol | | 0.192 | 0.227 | 0.260 | 0.256 | 0.253 | 0.232 | 0.237 | 10.85 |
| 57) | | 2,4-Dinitrotol... | 0.481 | 0.499 | 0.488 | 0.527 | 0.513 | 0.506 | 0.477 | 0.499 | 3.60 |
| 58) | | Fluorene | 1.518 | 1.511 | 1.535 | 1.601 | 1.488 | 1.532 | 1.458 | 1.520 | 2.91 |
| 59) | | 2,3,4,6-Tetrac... | 0.438 | 0.447 | 0.475 | 0.505 | 0.475 | 0.494 | 0.457 | 0.470 | 5.16 |
| 60) | | Diethylphthalate | 1.747 | 1.692 | 1.679 | 1.730 | 1.675 | 1.663 | 1.578 | 1.680 | 3.25 |
| 61) | | 4-Chlorophenyl... | 0.866 | 0.809 | 0.839 | 0.868 | 0.817 | 0.819 | 0.794 | 0.830 | 3.42 |
| 62) | | 4-Nitroaniline | 0.229 | 0.296 | 0.331 | 0.334 | 0.345 | 0.340 | 0.320 | 0.314 | 12.96 |
| 63) | | Azobenzene | 1.339 | 1.299 | 1.325 | 1.346 | 1.295 | 1.289 | 1.216 | 1.301 | 3.37 |
| 64) | I | Phenanthrene-d10 | ----------------ISTD-------------------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.125 | 0.139 | 0.145 | 0.138 | 0.145 | 0.144 | 0.139 | 5.58 |
| 66) | c | n-Nitrosodiphe... | 0.540 | 0.519 | 0.534 | 0.569 | 0.508 | 0.541 | 0.529 | 0.534 | 3.62 |
| 67) | | 4-Bromophenyl-... | 0.235 | 0.229 | 0.227 | 0.253 | 0.224 | 0.237 | 0.241 | 0.235 | 4.21 |
| 68) | | Hexachlorobenzene | 0.256 | 0.261 | 0.272 | 0.288 | 0.260 | 0.280 | 0.270 | 0.269 | 4.36 |
| 69) | | Atrazine | 0.237 | 0.240 | 0.247 | 0.250 | 0.232 | 0.239 | 0.219 | 0.238 | 4.26 |
| 70) | C | Pentachlorophenol | | 0.118 | 0.146 | 0.169 | 0.166 | 0.170 | 0.175 | 0.157 | 13.66 |
| 71) | | Phenanthrene | 1.072 | 1.022 | 1.055 | 1.111 | 1.002 | 1.050 | 1.010 | 1.046 | 3.65 |
| 72) | | Anthracene | 1.045 | 1.028 | 1.044 | 1.130 | 1.001 | 1.068 | 1.029 | 1.049 | 3.93 |
| 73) | | Carbazole | 0.883 | 0.895 | 0.904 | 0.987 | 0.877 | 0.921 | 0.880 | 0.907 | 4.24 |
| 74) | | Di-n-butylphth... | 1.096 | 1.079 | 1.105 | 1.189 | 1.076 | 1.131 | 1.076 | 1.107 | 3.71 |
| 75) | C | Fluoranthene | 1.269 | 1.226 | 1.272 | 1.330 | 1.192 | 1.253 | 1.204 | 1.250 | 3.77 |
| 76) | I | Chrysene-d12 | ----------------ISTD-------------------- | | | | | | | | |
| 77) | | Benzidine | | 0.393 | 0.424 | 0.649 | 0.540 | 0.621 | 0.359 | 0.498 | 24.67 |
| 78) | | Pyrene | 1.295 | 1.329 | 1.316 | 1.392 | 1.242 | 1.281 | 1.230 | 1.298 | 4.24 |
| 79) | S | Terphenyl-d14 | 1.067 | 1.061 | 1.069 | 1.123 | 1.030 | 1.044 | 1.003 | 1.057 | 3.55 |
| 80) | | Butylbenzylpht... | 0.437 | 0.438 | 0.464 | 0.497 | 0.447 | 0.479 | 0.458 | 0.460 | 4.78 |
| 81) | | Benzo(a)anthra... | 1.280 | 1.239 | 1.285 | 1.353 | 1.238 | 1.291 | 1.253 | 1.277 | 3.15 |
| 82) | | 3,3'-Dichlorob... | | 0.418 | 0.431 | 0.458 | 0.423 | 0.443 | 0.420 | 0.432 | 3.58 |
| 83) | | Chrysene | 1.226 | 1.200 | 1.195 | 1.297 | 1.173 | 1.210 | 1.178 | 1.211 | 3.48 |
| 84) | | Bis(2-ethylhex... | 0.605 | 0.637 | 0.640 | 0.692 | 0.641 | 0.670 | 0.658 | 0.649 | 4.26 |
| 85) | c | Di-n-octyl pht... | | 1.055 | 1.050 | 1.153 | 1.073 | 1.125 | 1.089 | 1.091 | 3.74 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG100225.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | -----------------ISTD--------------------- | | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.368 | 1.320 | 1.378 | 1.493 | 1.387 | 1.431 | 1.368 | 1.392 | 3.98 |
| 88) | | Benzo(b)fluora... | 1.077 | 1.084 | 1.171 | 1.212 | 1.142 | 1.169 | 1.109 | 1.138 | 4.40 |
| 89) | | Benzo(k)fluora... | 1.139 | 1.082 | 1.145 | 1.233 | 1.123 | 1.156 | 1.142 | 1.146 | 3.97 |
| 90) | C | Benzo(a)pyrene | 1.017 | 0.999 | 1.059 | 1.122 | 1.031 | 1.075 | 1.037 | 1.049 | 3.91 |
| 91) | | Dibenzo(a,h)an... | 1.047 | 1.053 | 1.121 | 1.190 | 1.115 | 1.151 | 1.116 | 1.113 | 4.55 |
| 92) | | Benzo(g,h,i)pe... | 1.059 | 1.053 | 1.088 | 1.153 | 1.069 | 1.104 | 1.048 | 1.082 | 3.41 |

(#) = Out of Range

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064473.D
Acq On : 2 Oct 2025 9:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 02 16:52:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.823 | 152 | 17107 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.608 | 136 | 71471 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.450 | 164 | 55395 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.188 | 188 | 147655 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.407 | 240 | 159672 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.386 | 264 | 165966 | 20.000 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 0.000 | 112 | 0d | 0.000 | ng | |
| 7) Phenol-d6 | 0.000 | 99 | 0d | 0.000 | ng | |
| 23) Nitrobenzene-d5 | 0.000 | 82 | 0d | 0.000 | ng | |
| 42) 2,4,6-Tribromophenol | 0.000 | 330 | 0d | 0.000 | ng | |
| 45) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.000 | ng | |
| 79) Terphenyl-d14 | 0.000 | 244 | 0d | 0.000 | ng | |
| Target Compounds | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propyla... | 8.622 | 70 | 1739 | 2.093 | ng | # 83 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

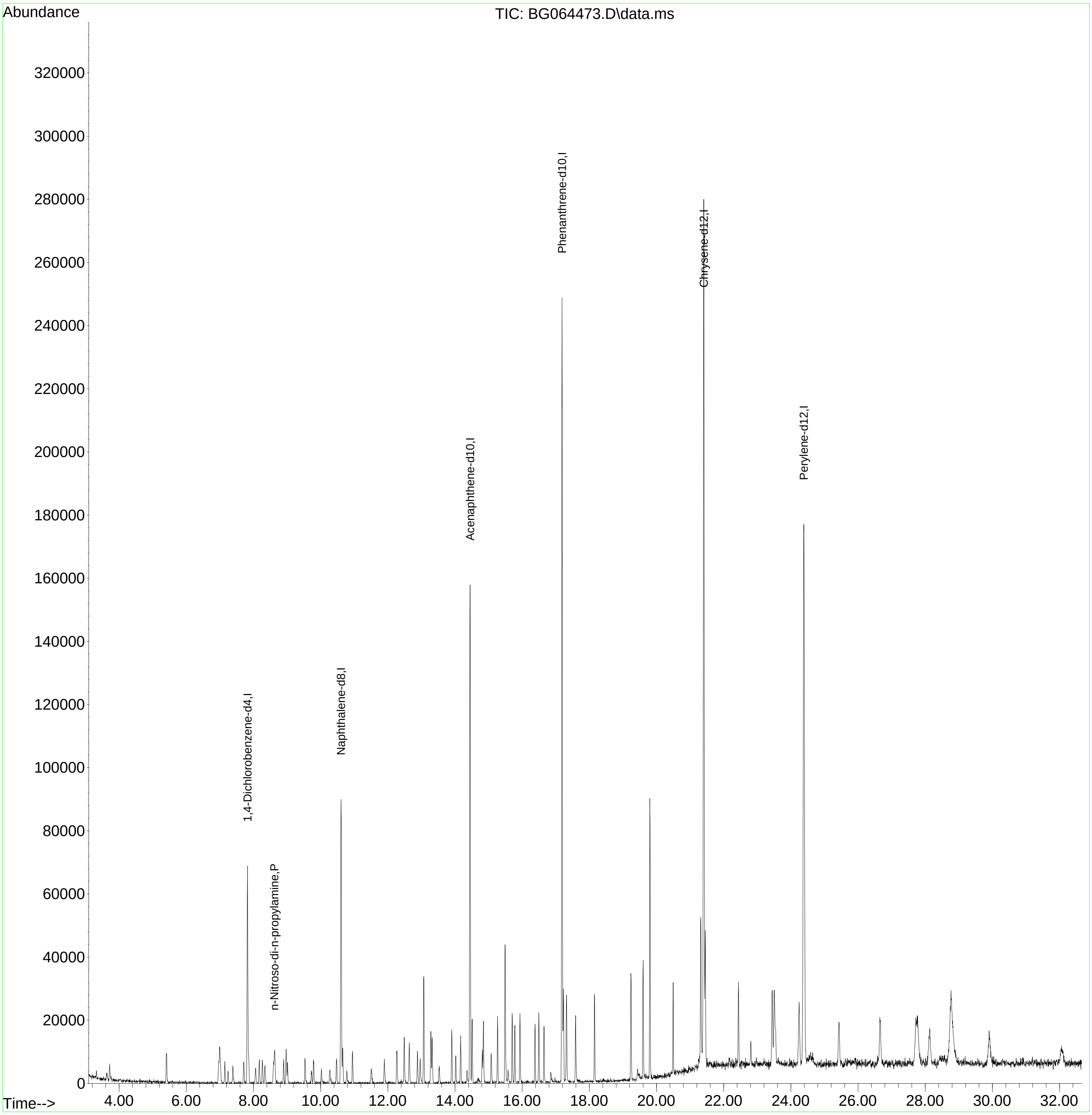
Quantitation Report (QT Reviewed)

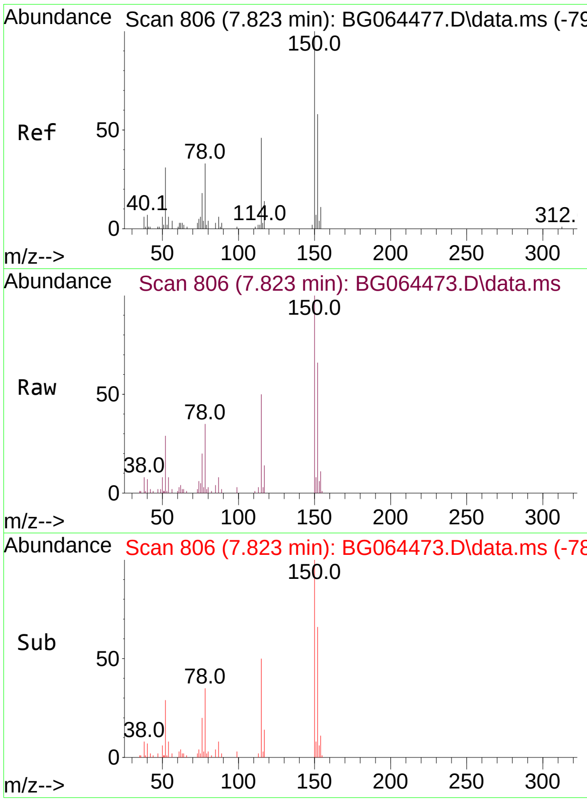
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064473.D
Acq On : 2 Oct 2025 9:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Quant Time: Oct 02 16:52:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration



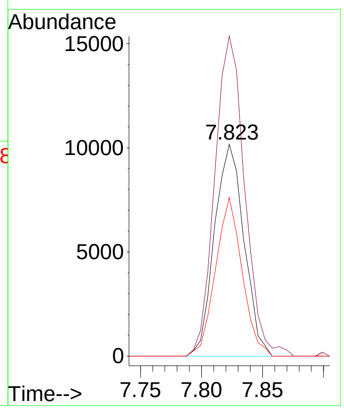


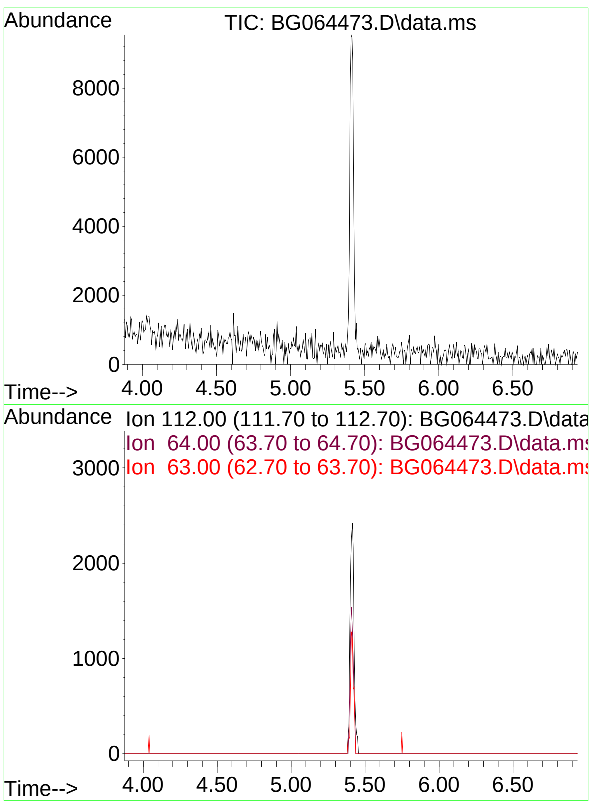

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.823 min Scan# 80
Delta R.T. 0.003 min
Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:152 Resp: 17107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.1 | 138.6 | 207.8 |
| 115 | 75.0 | 63.4 | 95.2 |



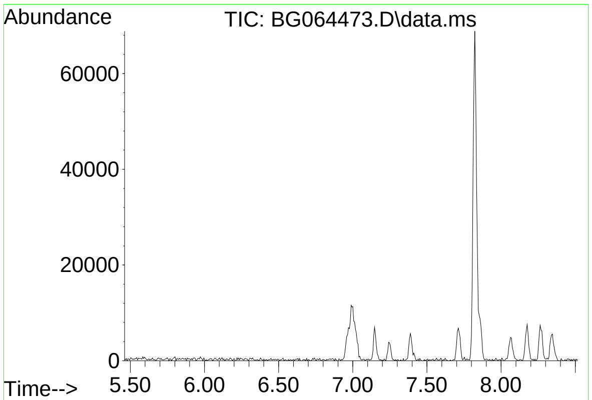

#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.41 min

Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

Tgt Ion: 112

| Sig | Exp Ratio |
|---|---|
| 112 | 100 |
| 64 | 62.3 |
| 63 | 39.1 |

ICAL Form



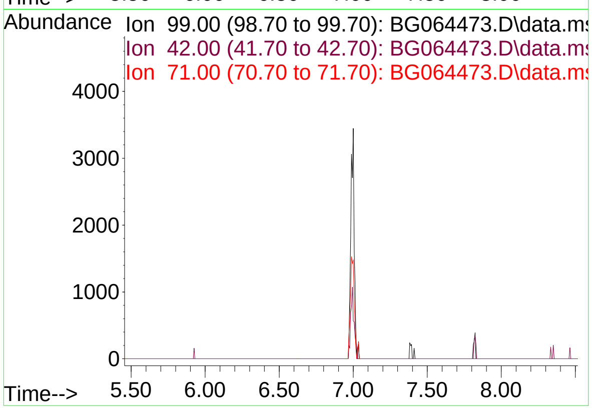

#7
Phenol-d6
Concen:    0.000 ng
Expected RT: 6.99 min

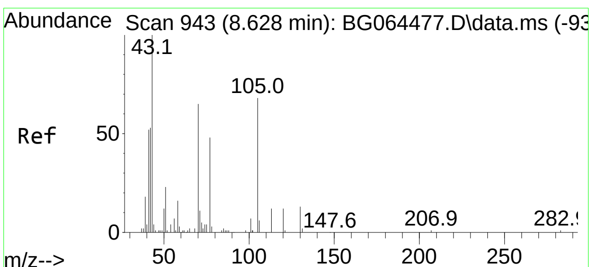
Lab File:   BG064473.D
Acq:  2 Oct 2025   9:01

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:  99

| Sig | Exp Ratio |
|---|---|
| 99 | 100 |
| 42 | 28.6 |
| 71 | 44.3 |

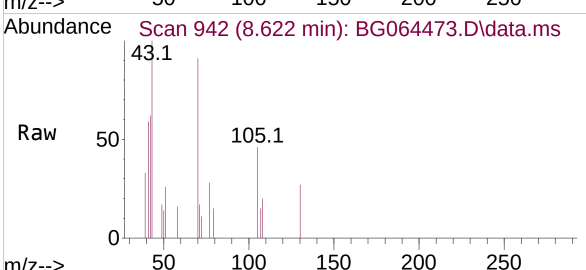


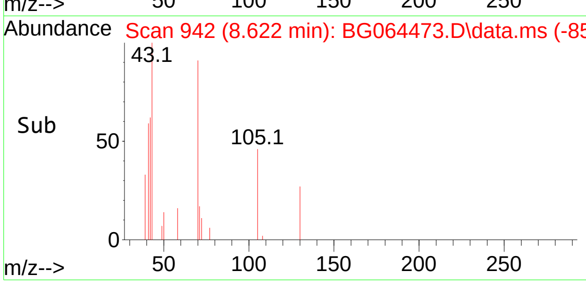



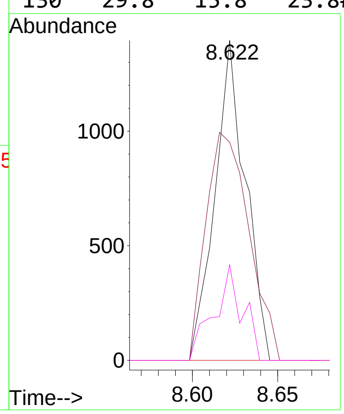

#19
n-Nitroso-di-n-propylamine
Concen:    2.093 ng
RT:   8.622 min   Scan# 942
Delta R.T.  0.008 min
Lab File:   BG064473.D
Acq:  2 Oct 2025   9:01

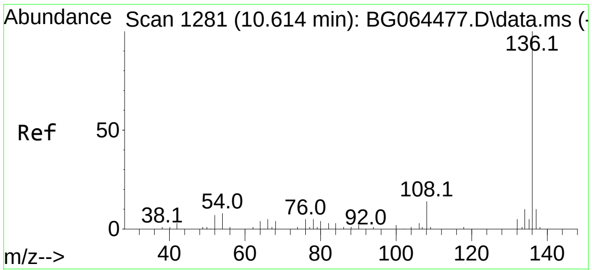
Tgt Ion: 70 Resp:    1739

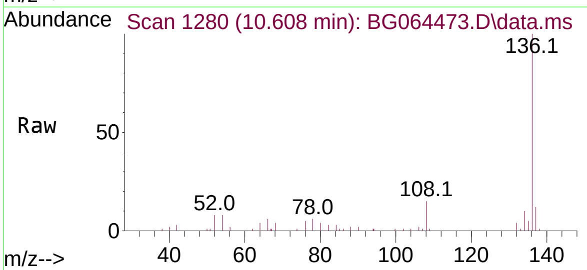
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 68.2 | 64.9 | 97.3 |
| 101 | 0.0 | 8.7 | 13.1# |
| 130 | 29.8 | 15.8 | 23.8# |

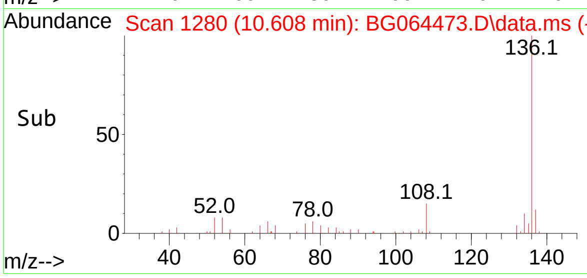




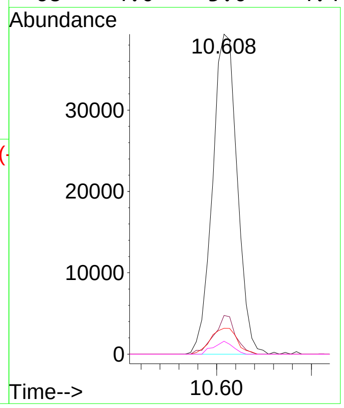



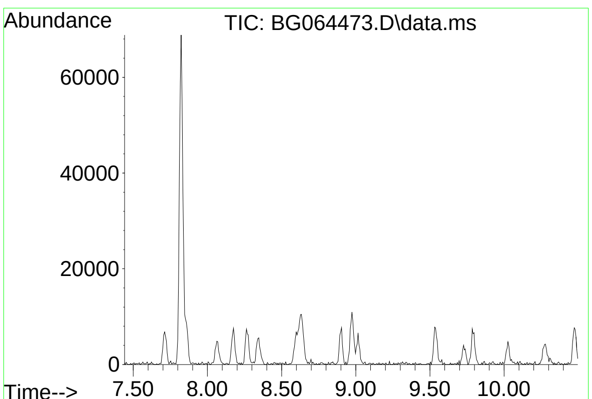

#21
Naphthalene-d8
Concen:   20.000 ng
RT:  10.608 min  Scan# 1
Delta R.T.  0.002 min
Lab File:   BG064473.D
Acq:  2 Oct 2025   9:01

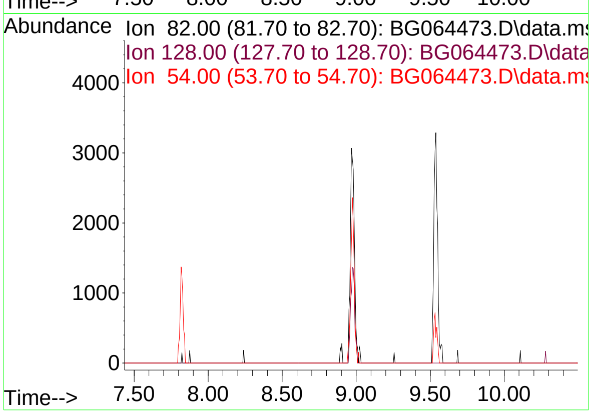
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:136 Resp:   71471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 8.3 | 12.5 |
| 54 | 8.1 | 6.2 | 9.4 |
| 68 | 4.0 | 3.0 | 4.4 |



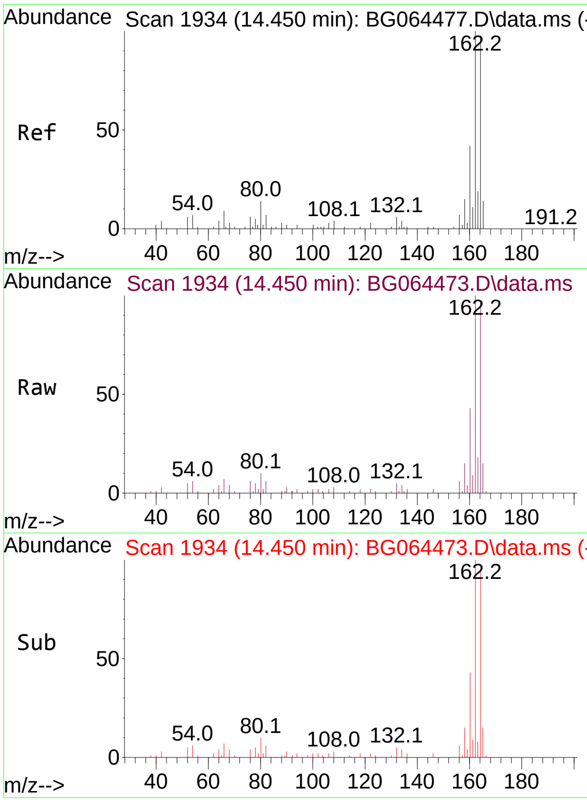

#23
Nitrobenzene-d5
Concen:    0.000 ng
Expected RT: 8.97 min

Lab File:   BG064473.D
Acq:  2 Oct 2025   9:01

Tgt Ion:  82

| Sig | Exp Ratio |
|---|---|
| 82 | 100 |
| 128 | 41.4 |
| 54 | 69.3 |

ICAL Form

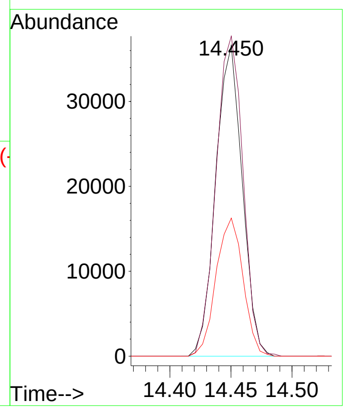


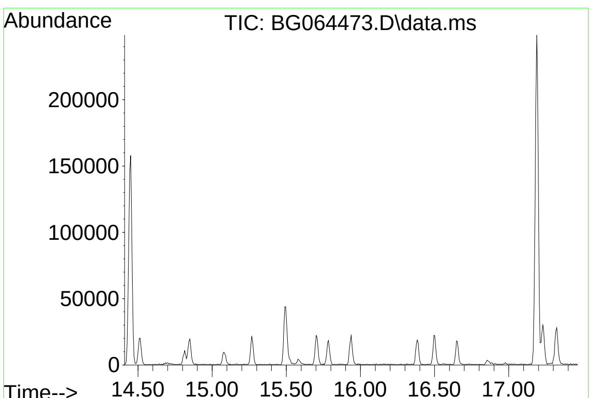
#39
Acenaphthene-d10
Concen:   20.000 ng
RT:  14.450 min  Scan# 19
Delta R.T.  0.002 min
Lab File:   BG064473.D
Acq:  2 Oct 2025   9:01

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:164 Resp:   55395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.9 | 82.2 | 123.2 |
| 160 | 44.4 | 34.3 | 51.5 |



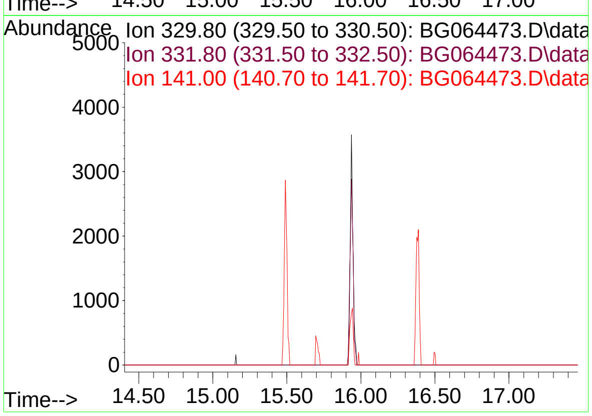


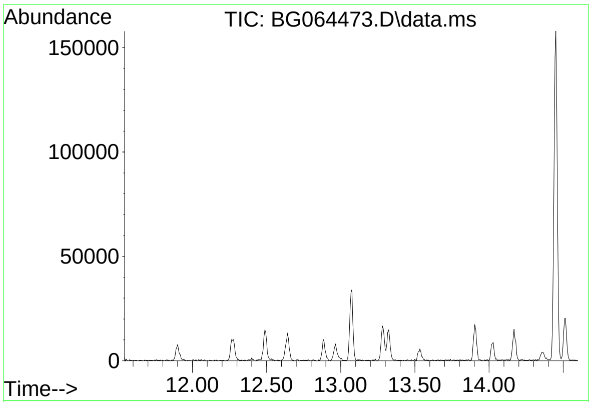
#42
2,4,6-Tribromophenol
Concen:    0.000 ng
Expected RT: 15.93 min

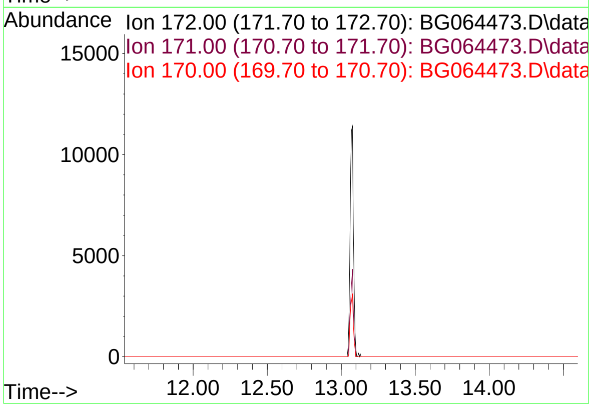
Lab File:   BG064473.D
Acq:  2 Oct 2025   9:01

Tgt Ion: 330

| Sig | Exp Ratio |
|---|---|
| 330 | 100 |
| 332 | 96.7 |
| 141 | 32.2 |





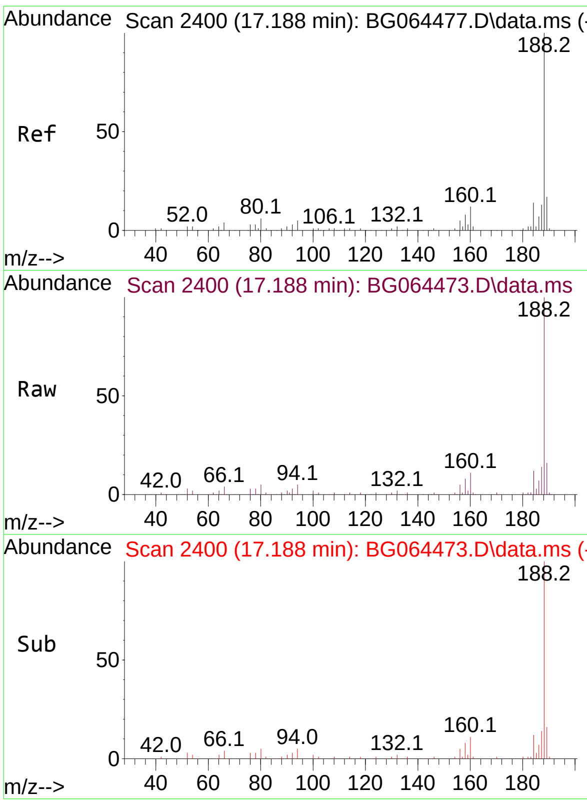

#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.07 min

Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

Tgt Ion: 172

| Sig | Exp Ratio |
|---|---|
| 172 | 100 |
| 171 | 37.0 |
| 170 | 25.2 |

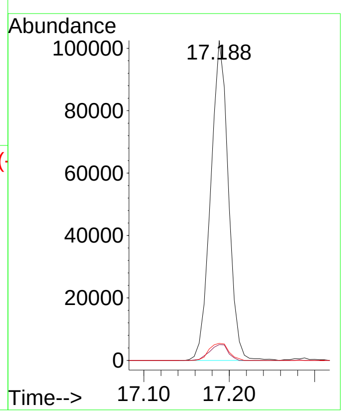
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

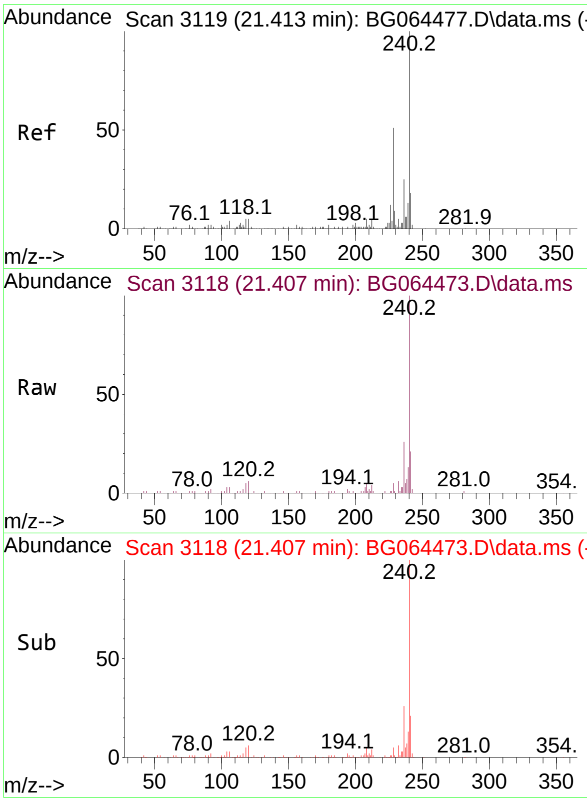



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.188 min Scan# 2400
Delta R.T. 0.002 min
Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

Tgt Ion:188 Resp: 147655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 4.9 | 3.7 | 5.5 |
| 80 | 5.3 | 4.5 | 6.7 |



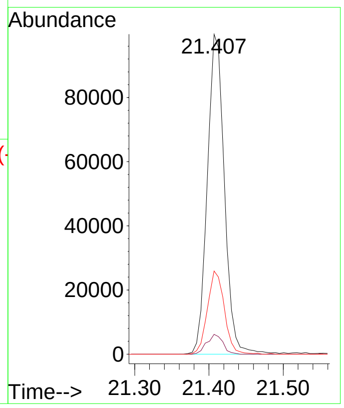


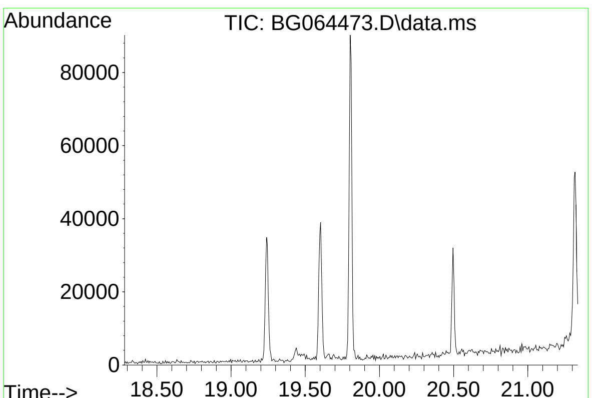

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.407 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:240 Resp: 159672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 6.2 | 4.3 | 6.5 |
| 236 | 26.0 | 20.4 | 30.6 |



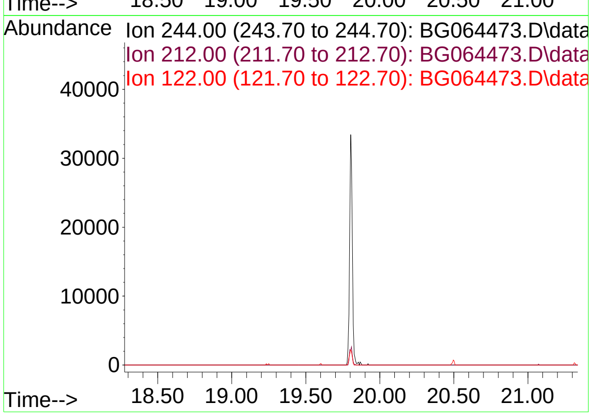



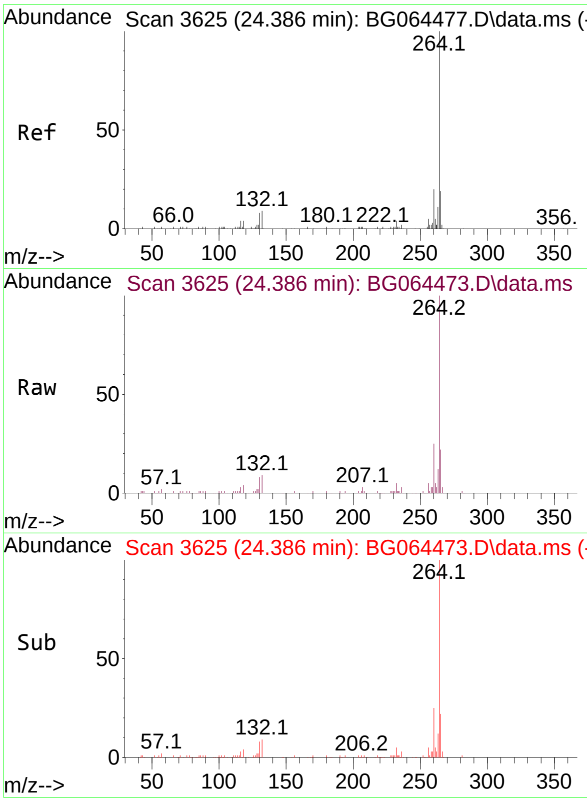

#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.81 min

Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

Tgt Ion: 244

| Sig | Exp Ratio |
|---|---|
| 244 | 100 |
| 212 | 8.8 |
| 122 | 7.0 |



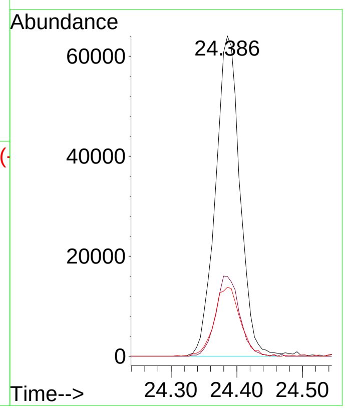



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.386 min Scan# 36
Delta R.T. -0.004 min
Lab File: BG064473.D
Acq: 2 Oct 2025 9:01

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:264 Resp: 165966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.9 | 16.2 | 24.4# |
| 265 | 21.5 | 15.0 | 22.4 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064474.D
Acq On : 2 Oct 2025 9:42
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.823 | 152 | 17301 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.608 | 136 | 74573 | 20.000 | ng | # 0.00 |
| 39) Acenaphthene-d10 | 14.450 | 164 | 60732 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.188 | 188 | 155342 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.407 | 240 | 162684 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.380 | 264 | 169977 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.408 | 112 | 9220 | 9.863 | ng | 0.00 |
| 7) Phenol-d6 | 6.994 | 99 | 12069 | 9.607 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.974 | 82 | 13416 | 9.673 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.937 | 330 | 11056 | 10.043 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.070 | 172 | 41153 | 9.988 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.803 | 244 | 86764 | 10.093 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.322 | 88 | 2293 | 6.201 | ng | # 92 |
| 3) Pyridine | 3.716 | 79 | 5300 | 5.333 | ng | 93 |
| 6) Aniline | 7.153 | 93 | 8273 | 5.221 | ng | 90 |
| 8) 2-Chlorophenol | 7.394 | 128 | 6000 | 5.227 | ng | 85 |
| 10) Phenol | 7.024 | 94 | 6564 | 4.953 | ng | 89 |
| 11) bis(2-Chloroethyl)ether | 7.241 | 93 | 4832 | 5.384 | ng | 84 |
| 12) 1,3-Dichlorobenzene | 7.717 | 146 | 6740 | 5.367 | ng | 95 |
| 13) 1,4-Dichlorobenzene | 7.858 | 146 | 6514 | 5.169 | ng | 90 |
| 14) 1,2-Dichlorobenzene | 8.169 | 146 | 6846 | 5.512 | ng | 96 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.340 | 45 | 7441 | 5.144 | ng | 89 |
| 17) 2-Methylphenol | 8.263 | 107 | 4780 | 4.981 | ng | # 80 |
| 18) Hexachloroethane | 8.904 | 117 | 2534 | 5.094 | ng | 87 |
| 19) n-Nitroso-di-n-propyla... | 8.622 | 70 | 4362 | 5.192 | ng | # 84 |
| 22) Acetophenone | 8.634 | 105 | 8878 | 4.917 | ng | # 94 |
| 24) Nitrobenzene | 9.015 | 77 | 7504 | 5.426 | ng | # 96 |
| 25) Isophorone | 9.538 | 82 | 12523 | 4.984 | ng | 97 |
| 26) 2-Nitrophenol | 9.726 | 139 | 3668 | 5.329 | ng | 97 |
| 27) 2,4-Dimethylphenol | 9.791 | 122 | 5155 | 4.903 | ng | 88 |
| 28) bis(2-Chloroethoxy)met... | 10.026 | 93 | 5971 | 4.662 | ng | 93 |
| 29) 2,4-Dichlorophenol | 10.261 | 162 | 6029 | 4.959 | ng | # 82 |
| 30) 1,2,4-Trichlorobenzene | 10.478 | 180 | 7136 | 5.383 | ng | 90 |
| 31) Naphthalene | 10.661 | 128 | 19808 | 5.158 | ng | # 94 |
| 33) 4-Chloroaniline | 10.772 | 127 | 7309 | 4.960 | ng | 96 |
| 34) Hexachlorobutadiene | 10.948 | 225 | 6170 | 5.435 | ng | 98 |
| 36) 4-Chloro-3-methylphenol | 11.894 | 107 | 7360 | 4.978 | ng | # 82 |
| 37) 2-Methylnaphthalene | 12.270 | 142 | 14601 | 4.953 | ng | 97 |
| 38) 1-Methylnaphthalene | 12.488 | 142 | 15610 | 5.311 | ng | 89 |
| 40) 1,2,4,5-Tetrachloroben... | 12.641 | 216 | 9451 | 4.820 | ng | 97 |
| 43) 2,4,6-Trichlorophenol | 12.882 | 196 | 5944 | 4.742 | ng | 91 |
| 44) 2,4,5-Trichlorophenol | 12.958 | 196 | 6843 | 4.890 | ng | # 96 |
| 46) 1,1'-Biphenyl | 13.287 | 154 | 21854 | 5.003 | ng | 88 |
| 47) 2-Chloronaphthalene | 13.322 | 162 | 15278 | 4.685 | ng | 95 |
| 48) 2-Nitroaniline | 13.528 | 65 | 4571 | 4.107 | ng | # 93 |
| 49) Acenaphthylene | 14.168 | 152 | 24156 | 4.990 | ng | 95 |
| 50) Dimethylphthalate | 13.904 | 163 | 23745 | 4.992 | ng | # 96 |
| 51) 2,6-Dinitrotoluene | 14.021 | 165 | 4429 | 4.470 | ng | 94 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064474.D
Acq On : 2 Oct 2025 9:42
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) Acenaphthene | 14.515 | 154 | 16816 | 5.000 | ng | | 90 |
| 53) 3-Nitroaniline | 14.356 | 138 | 4231 | 4.630 | ng | | 83 |
| 55) Dibenzofuran | 14.850 | 168 | 27888 | 5.022 | ng | # | 94 |
| 57) 2,4-Dinitrotoluene | 14.809 | 165 | 7310 | 4.826 | ng | # | 92 |
| 58) Fluorene | 15.496 | 166 | 23055 | 4.994 | ng | # | 92 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.073 | 232 | 6653 | 4.658 | ng | # | 96 |
| 60) Diethylphthalate | 15.267 | 149 | 26525 | 5.198 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 15.496 | 204 | 13144 | 5.215 | ng | | 97 |
| 62) 4-Nitroaniline | 15.514 | 138 | 3481 | 3.655 | ng | # | 88 |
| 63) Azobenzene | 15.778 | 77 | 20327 | 5.144 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 15.702 | 169 | 20960 | 5.053 | ng | | 98 |
| 67) 4-Bromophenyl-phenylether | 16.383 | 248 | 9144 | 5.002 | ng | | 88 |
| 68) Hexachlorobenzene | 16.501 | 284 | 9929 | 4.747 | ng | | 99 |
| 69) Atrazine | 16.654 | 200 | 9189 | 4.979 | ng | | 92 |
| 71) Phenanthrene | 17.229 | 178 | 41639 | 5.126 | ng | | 97 |
| 72) Anthracene | 17.323 | 178 | 40568m | 4.978 | ng | | |
| 73) Carbazole | 17.594 | 167 | 34305 | 4.870 | ng | | 97 |
| 74) Di-n-butylphthalate | 18.152 | 149 | 42564 | 4.950 | ng | | 100 |
| 75) Fluoranthene | 19.239 | 202 | 49301 | 5.080 | ng | | 98 |
| 78) Pyrene | 19.603 | 202 | 52677 | 4.989 | ng | | 99 |
| 80) Butylbenzylphthalate | 20.496 | 149 | 17773 | 4.749 | ng | | 92 |
| 81) Benzo(a)anthracene | 21.389 | 228 | 52066 | 5.012 | ng | | 94 |
| 83) Chrysene | 21.454 | 228 | 49843 | 5.060 | ng | | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 21.319 | 149 | 24616 | 4.662 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 27.723 | 276 | 58114 | 4.912 | ng | # | 89 |
| 88) Benzo(b)fluoranthene | 23.440 | 252 | 45779m | 4.734 | ng | | |
| 89) Benzo(k)fluoranthene | 23.510 | 252 | 48402 | 4.970 | ng | | 99 |
| 90) Benzo(a)pyrene | 24.239 | 252 | 43216 | 4.849 | ng | # | 95 |
| 91) Dibenzo(a,h)anthracene | 27.788 | 278 | 44497 | 4.703 | ng | # | 96 |
| 92) Benzo(g,h,i)perylene | 28.769 | 276 | 45019 | 4.896 | ng | # | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

ICAL Form

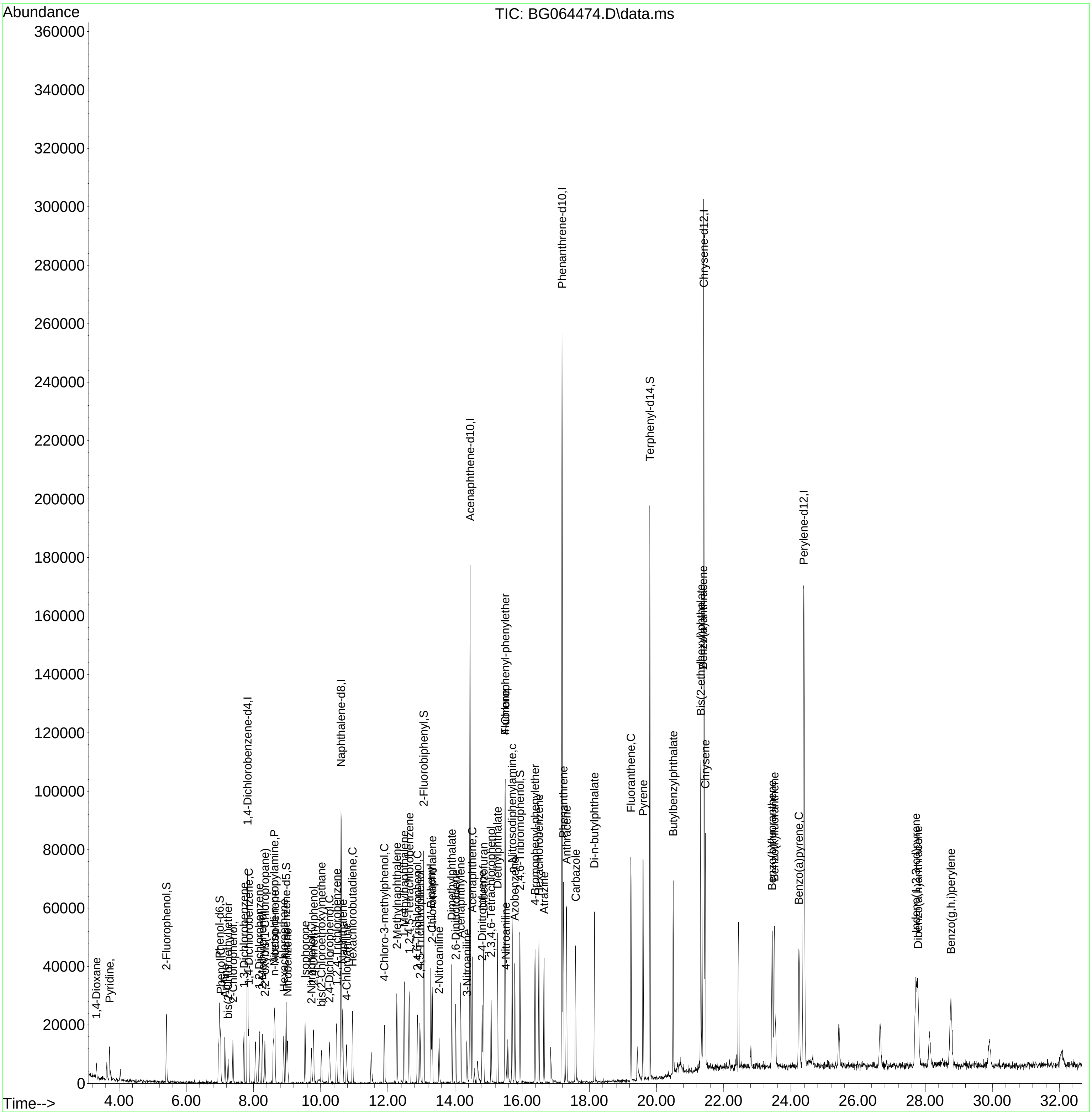
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064474.D
Acq On : 2 Oct 2025 9:42
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

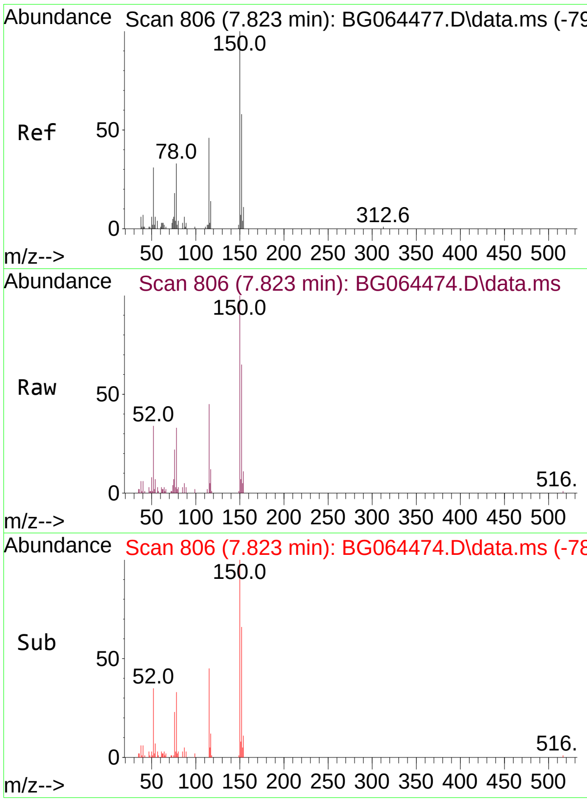
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration



ICAL Form




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.823 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

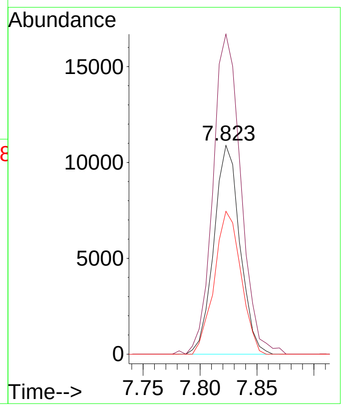
Tgt Ion:152 Resp: 1730

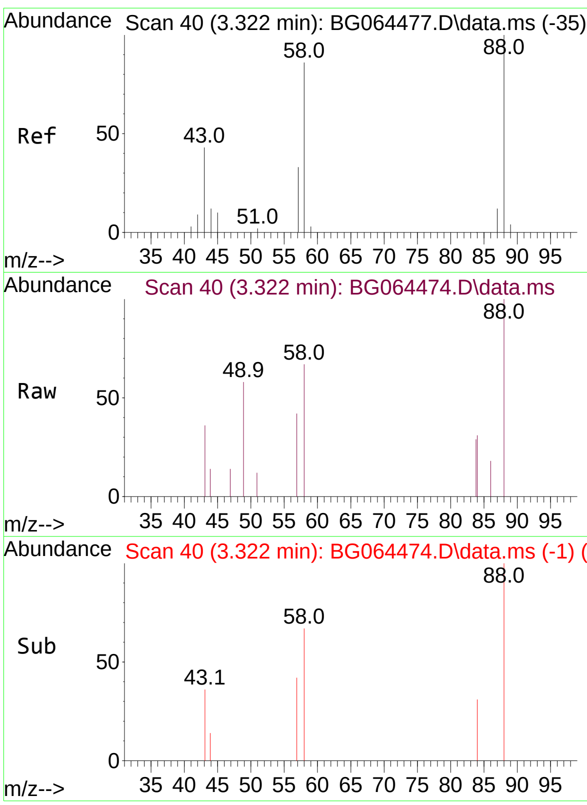
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 138.6 | 207.8 |
| 115 | 68.4 | 63.4 | 95.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

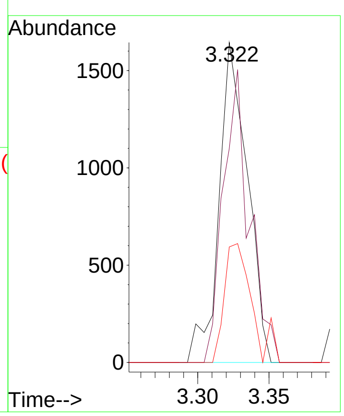



#2
1,4-Dioxane
Concen: 6.201 ng
RT: 3.322 min Scan# 40
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion: 88 Resp: 2293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 84.0 | 69.8 | 104.6 |
| 43 | 35.8 | 37.4 | 56.0# |

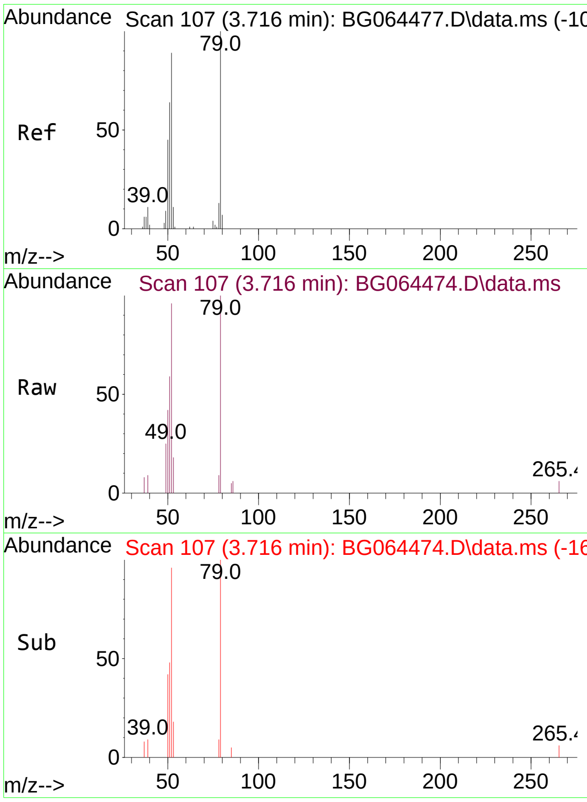


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

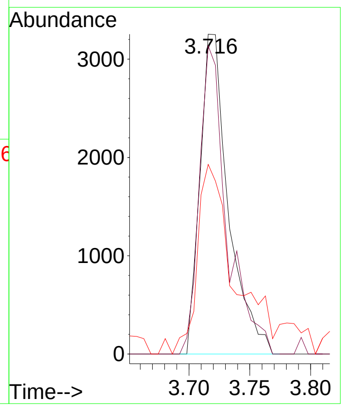
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

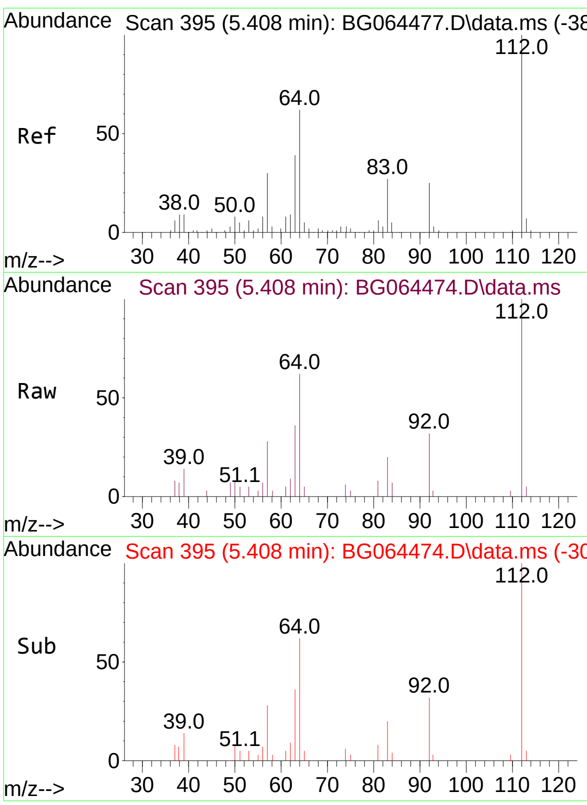



#3
Pyridine
Concen: 5.333 ng
RT: 3.716 min Scan# 10
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion: 79 Resp: 5300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 96.3 | 71.0 | 106.4 |
| 51 | 59.3 | 51.0 | 76.6 |

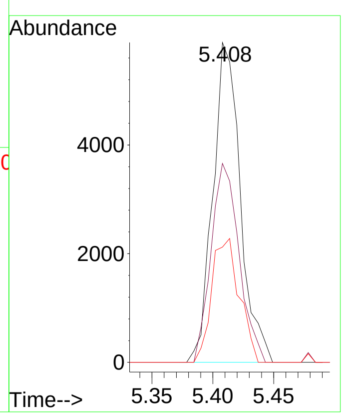


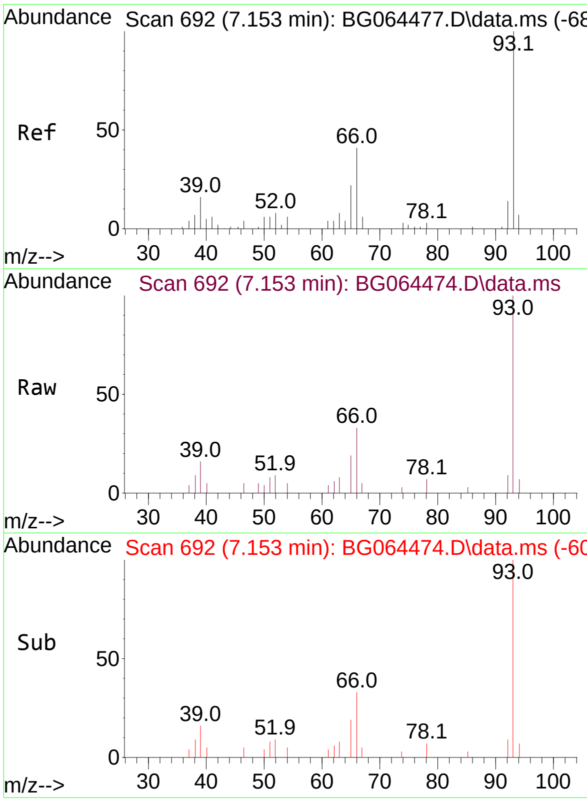

#5
2-Fluorophenol
Concen: 9.863 ng
RT: 5.408 min Scan# 395
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:112 Resp: 9220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 62.2 | 49.8 | 74.8 |
| 63 | 36.0 | 31.3 | 46.9 |



ICAL Form




#6
Aniline
Concen: 5.221 ng
RT: 7.153 min Scan# 69
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

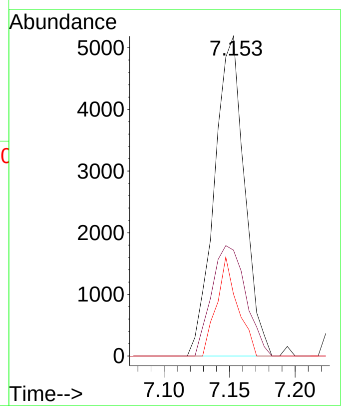
Tgt Ion: 93 Resp: 827

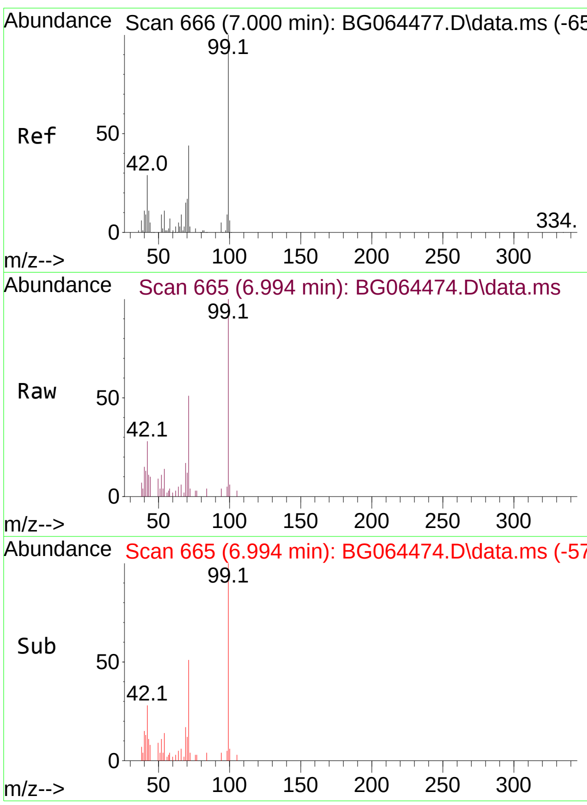
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 33.1 | 33.0 | 49.4 |
| 65 | 19.4 | 17.5 | 26.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

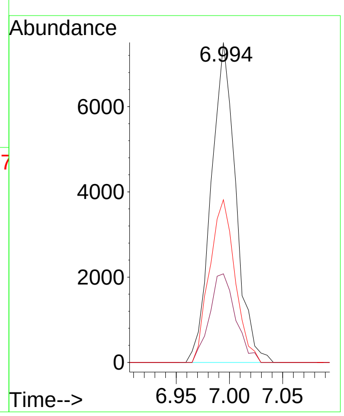



#7
Phenol-d6
Concen: 9.607 ng
RT: 6.994 min Scan# 665
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion: 99 Resp: 12069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 27.7 | 22.9 | 34.3 |
| 71 | 50.8 | 35.4 | 53.2 |

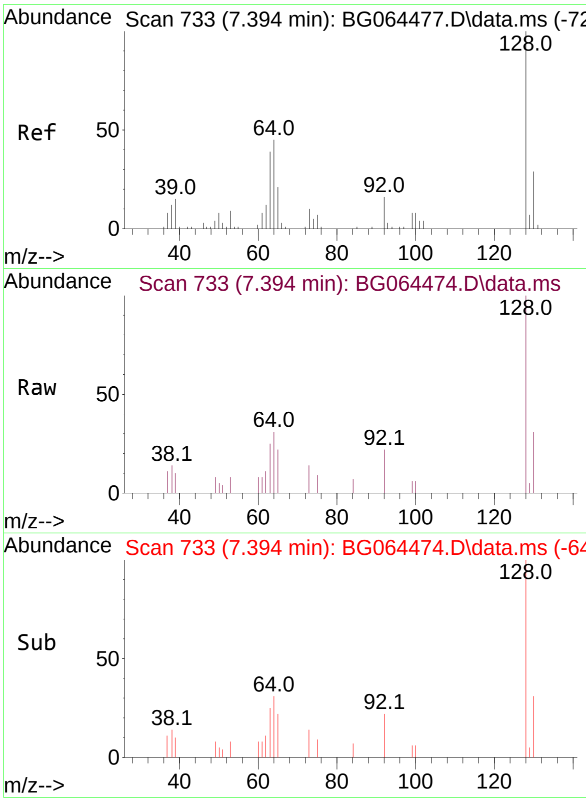


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

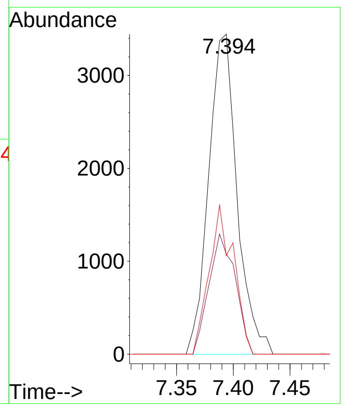
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

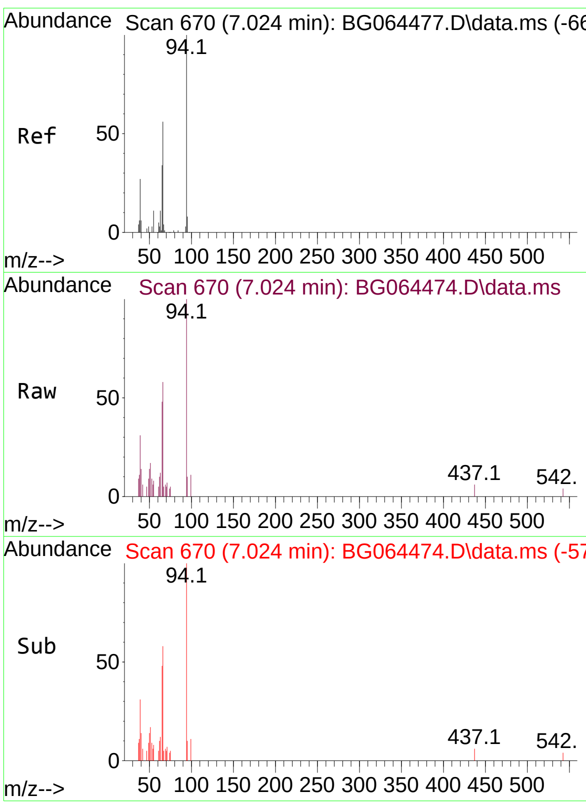



#8
2-Chlorophenol
Concen: 5.227 ng
RT: 7.394 min Scan# 7
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:128 Resp: 600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.3 | 9.2 | 49.2 |
| 64 | 30.8 | 25.5 | 65.5 |

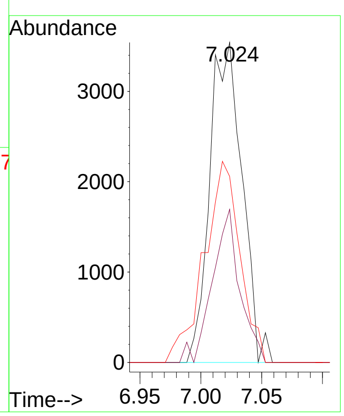


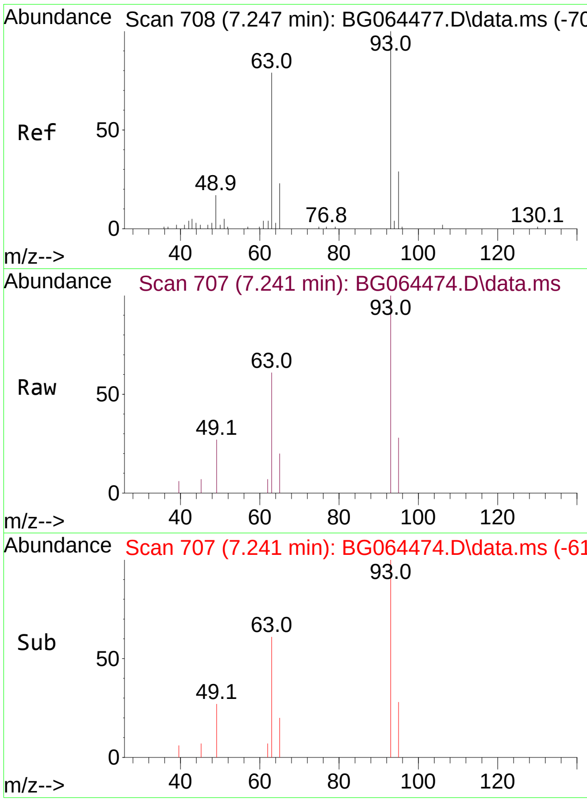




#10
Phenol
Concen: 4.953 ng
RT: 7.024 min Scan# 670
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion: 94 Resp: 6564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 47.8 | 14.8 | 54.8 |
| 66 | 58.1 | 41.4 | 81.4 |






#11
bis(2-Chloroethyl)ether
Concen: 5.384 ng
RT: 7.241 min Scan# 70
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

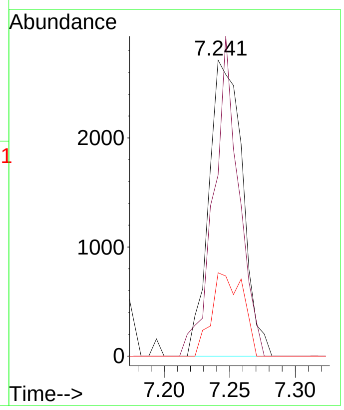
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

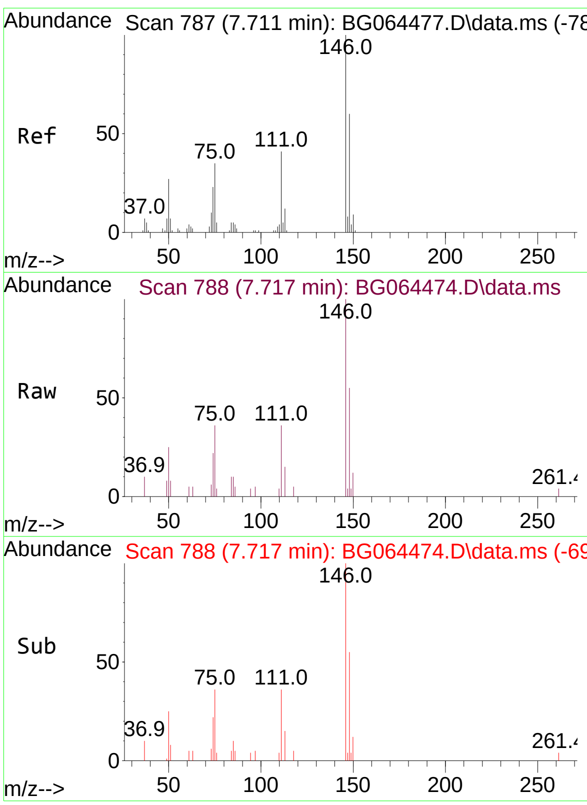
Tgt Ion: 93 Resp: 483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 61.2 | 59.5 | 99.5 |
| 95 | 28.2 | 8.8 | 48.8 |

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

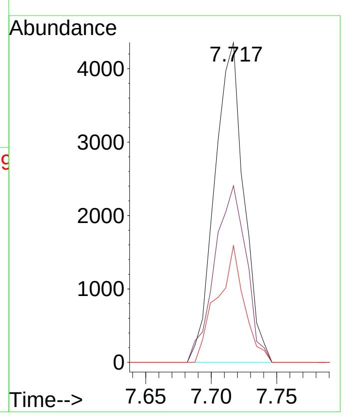


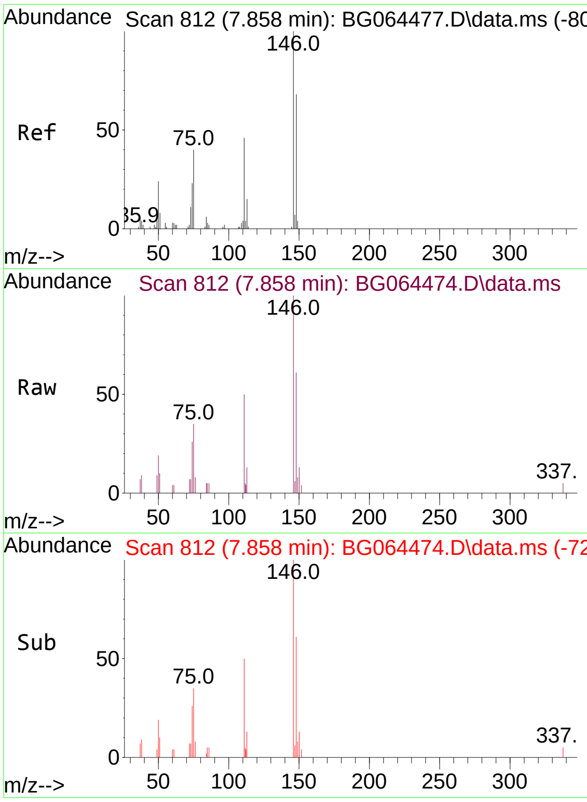

#12
1,3-Dichlorobenzene
Concen: 5.367 ng
RT: 7.717 min Scan# 788
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:146 Resp: 6740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 55.2 | 48.4 | 72.6 |
| 75 | 36.5 | 28.3 | 42.5 |



ICAL Form




#13
1,4-Dichlorobenzene
Concen: 5.169 ng
RT: 7.858 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

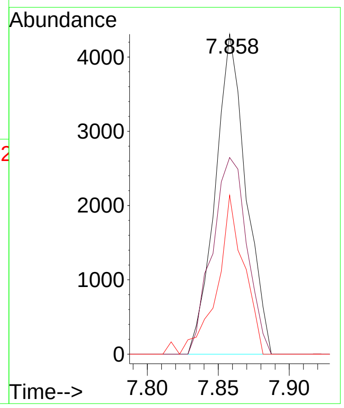
Tgt Ion:146 Resp: 651

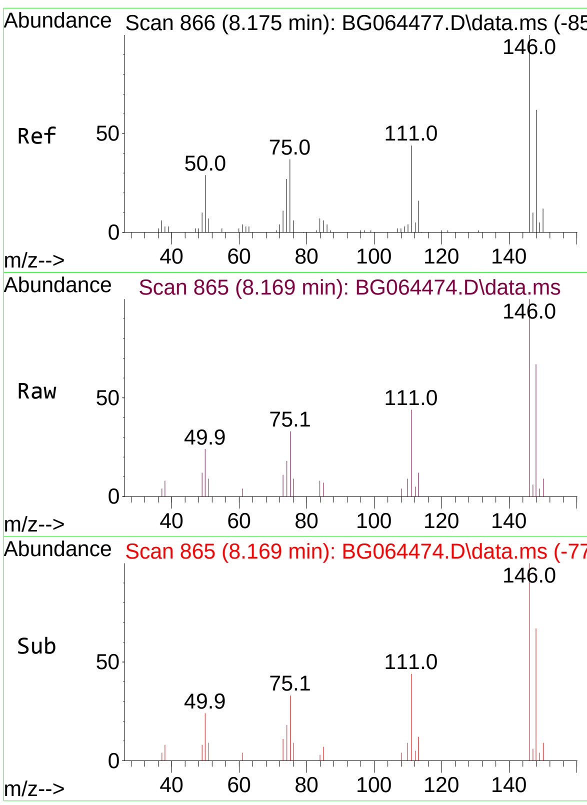
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 61.4 | 54.4 | 81.6 |
| 111 | 54.2 | 36.5 | 54.7 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

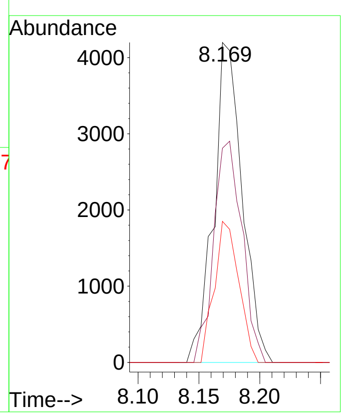


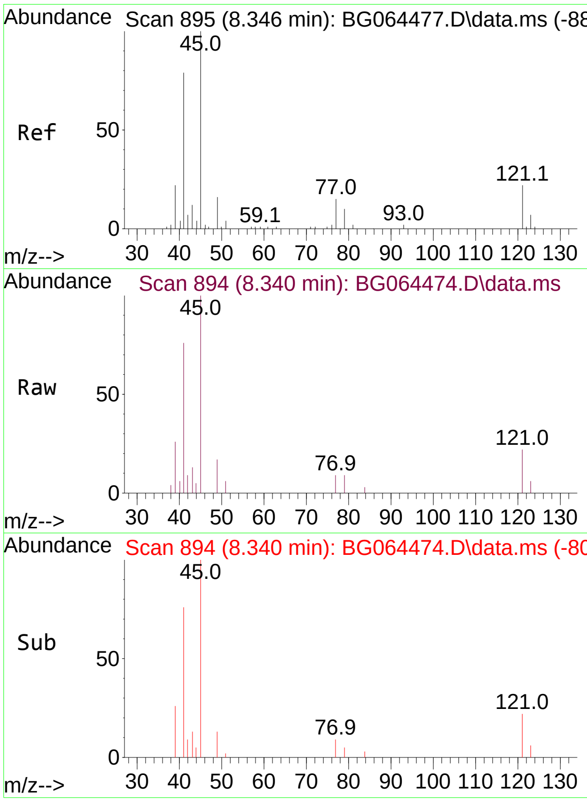

#14
1,2-Dichlorobenzene
Concen: 5.512 ng
RT: 8.169 min Scan# 865
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:146 Resp: 6846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 66.9 | 50.0 | 75.0 |
| 111 | 44.1 | 35.0 | 52.4 |



ICAL Form



#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.144 ng
RT: 8.340 min Scan# 89
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

Tgt Ion: 45 Resp: 7441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 9.0 | 0.0 | 35.6 |
| 79 | 9.0 | 0.0 | 30.7 |

**Manual Integrations APPROVED**

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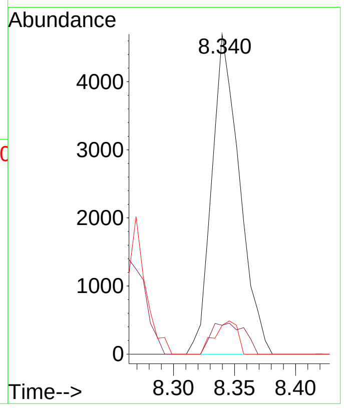
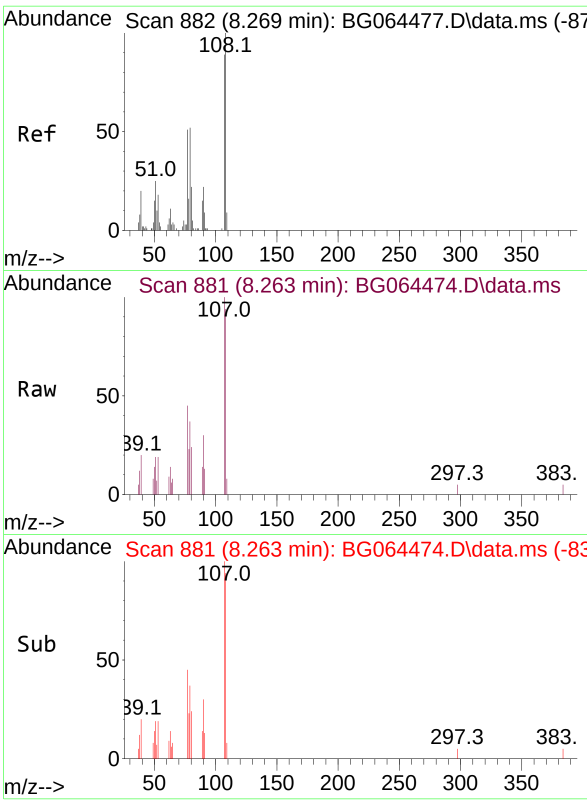
Supervised By :Jagrut Upadhyay 10/03/2025

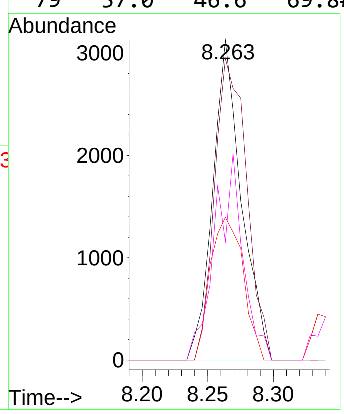


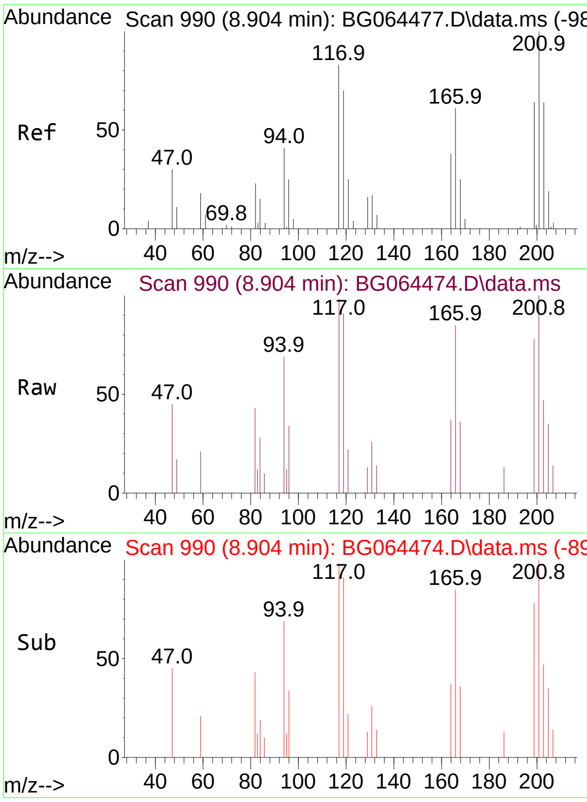


#17
2-Methylphenol
Concen: 4.981 ng
RT: 8.263 min Scan# 881
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:107 Resp: 4780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 94.3 | 90.3 | 135.5 |
| 77 | 44.6 | 46.0 | 69.0# |
| 79 | 37.0 | 46.6 | 69.8# |

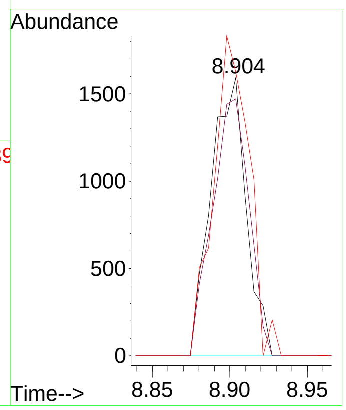





#18
Hexachloroethane
Concen: 5.094 ng
RT: 8.904 min Scan# 99
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

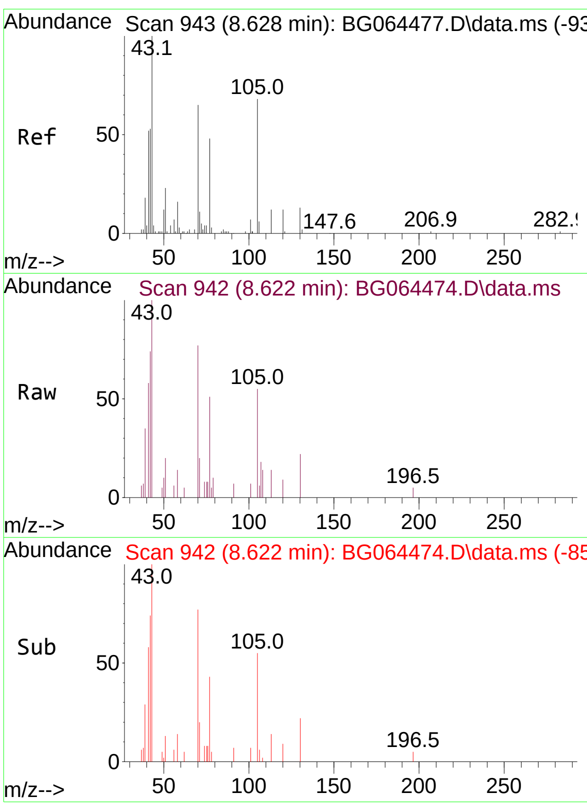
Tgt Ion:117 Resp: 2534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.5 | 67.4 | 101.0 |
| 201 | 102.2 | 95.9 | 143.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

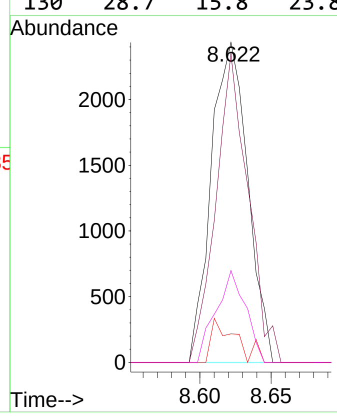
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#19
n-Nitroso-di-n-propylamine
Concen: 5.192 ng
RT: 8.622 min Scan# 942
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

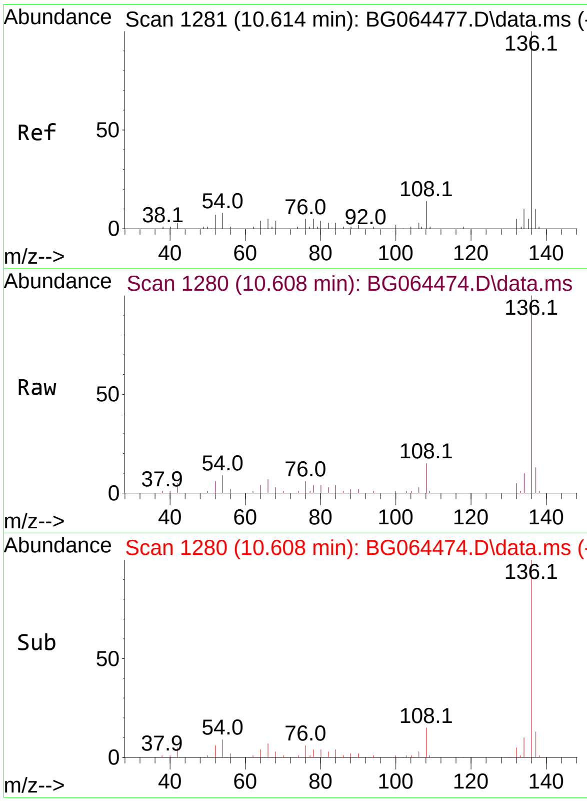
Tgt Ion: 70 Resp: 4362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 96.4 | 64.9 | 97.3 |
| 101 | 8.9 | 8.7 | 13.1 |
| 130 | 28.7 | 15.8 | 23.8# |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

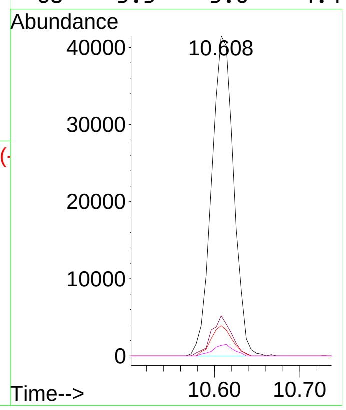
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

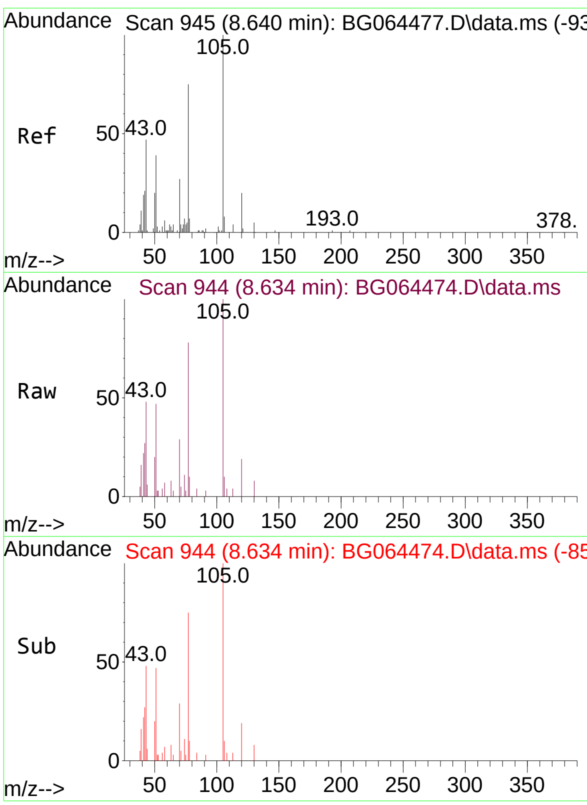



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.608 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:136 Resp: 74573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 8.3 | 12.5# |
| 54 | 9.4 | 6.2 | 9.4# |
| 68 | 3.3 | 3.0 | 4.4 |

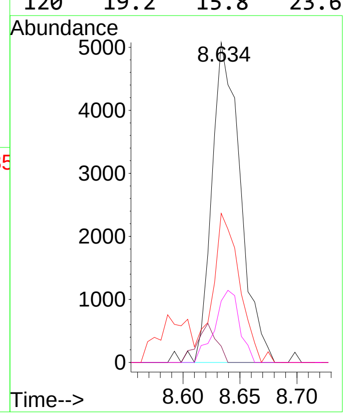


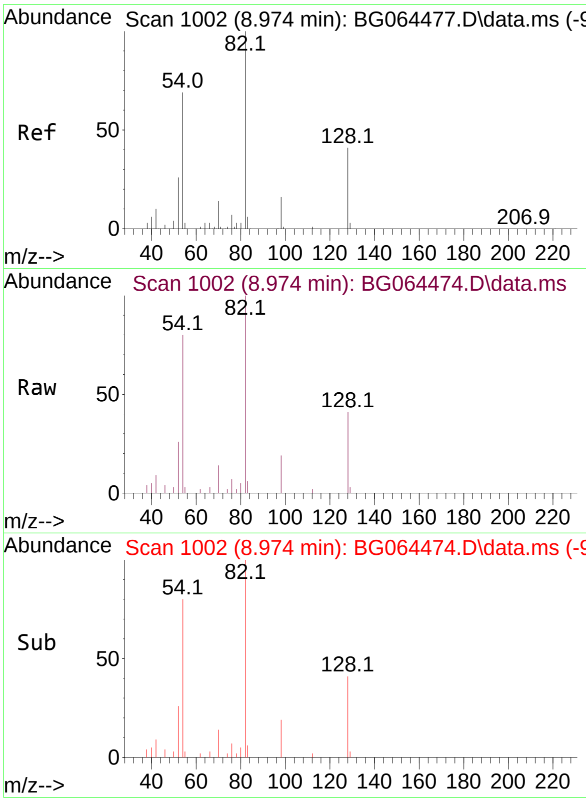




#22
Acetophenone
Concen: 4.917 ng
RT: 8.634 min Scan# 944
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:105 Resp: 8878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 5.1 | 2.8 | 4.2# |
| 51 | 46.6 | 33.0 | 49.4 |
| 120 | 19.2 | 15.8 | 23.6 |






#23
Nitrobenzene-d5
Concen: 9.673 ng
RT: 8.974 min Scan# 10
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

Tgt Ion: 82 Resp: 1341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.1 | 33.1 | 49.7 |
| 54 | 79.8 | 55.4 | 83.2 |

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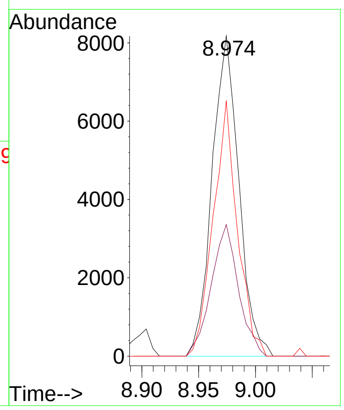
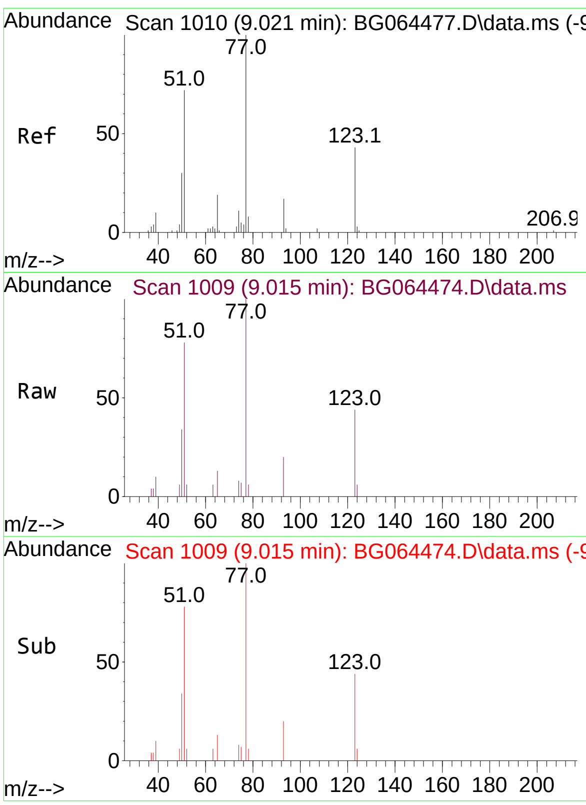
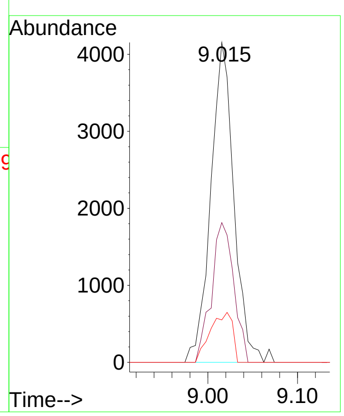


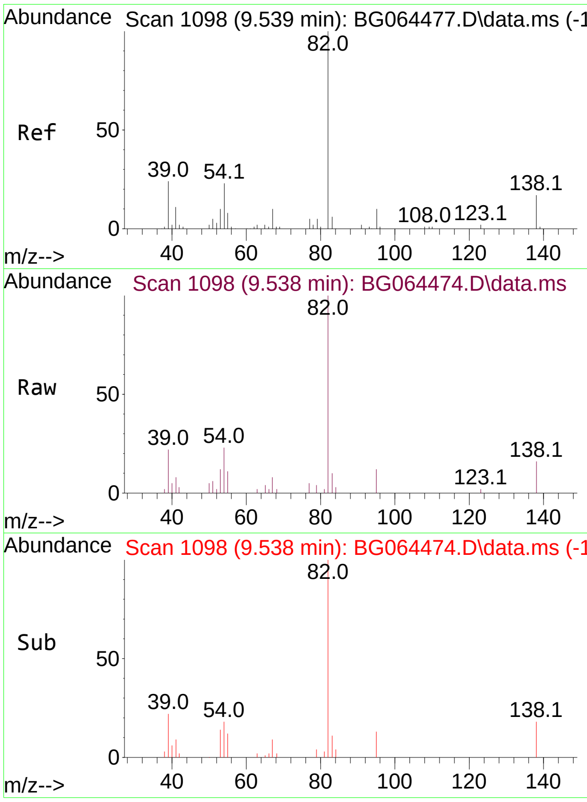




#24
Nitrobenzene
Concen: 5.426 ng
RT: 9.015 min Scan# 1009
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion: 77 Resp: 7504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.7 | 34.4 | 51.6 |
| 65 | 13.3 | 14.8 | 22.2# |






#25
Isophorone
Concen: 4.984 ng
RT: 9.538 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

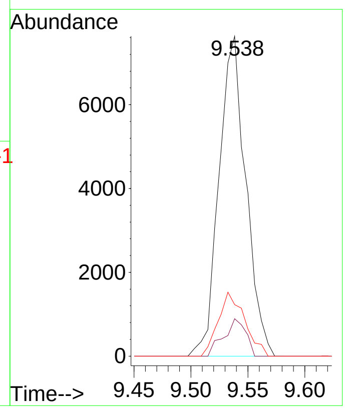
Tgt Ion: 82 Resp: 1252

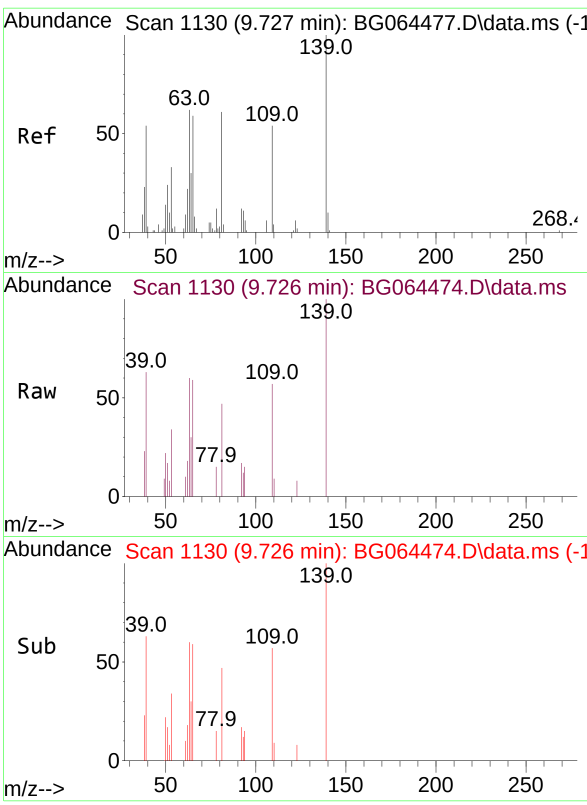
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 11.7 | 7.8 | 11.8 |
| 138 | 16.1 | 13.8 | 20.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

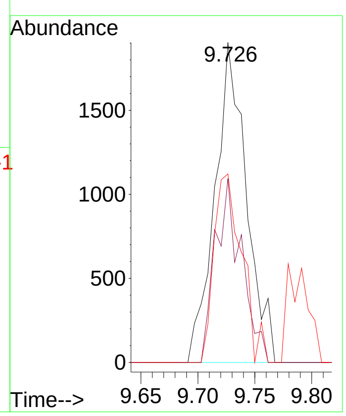


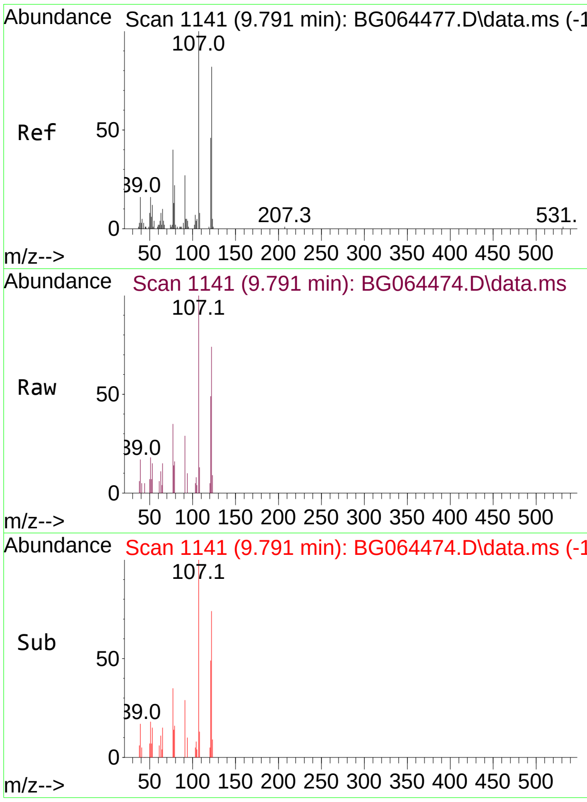




#26
2-Nitrophenol
Concen: 5.329 ng
RT: 9.726 min Scan# 1130
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:139 Resp: 3668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 57.4 | 43.0 | 64.6 |
| 65 | 58.9 | 47.4 | 71.2 |



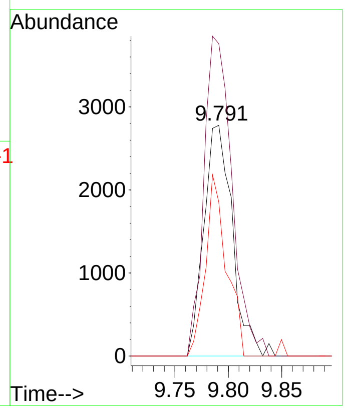


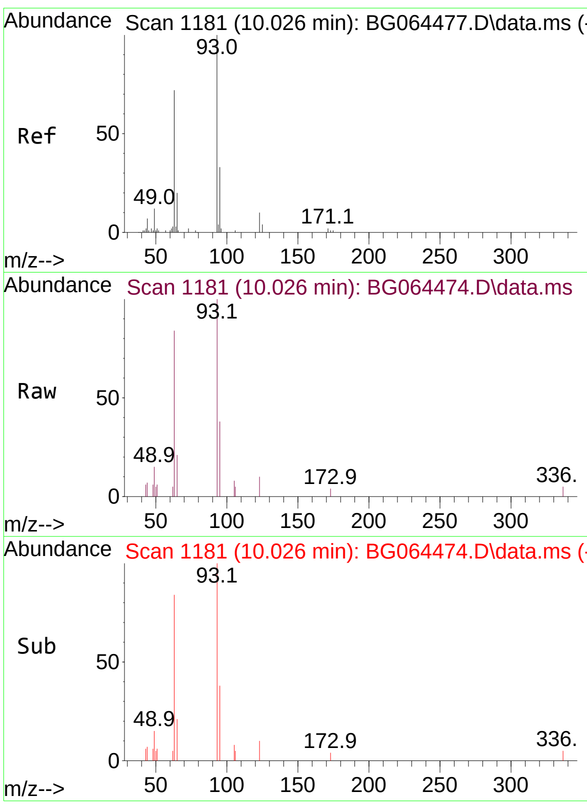

```
#27
2,4-Dimethylphenol
Concen:     4.903 ng
RT:    9.791 min   Scan# 11
Delta R.T.   0.008 min
Lab File:    BG064474.D
Acq:  2 Oct 2025    9:42

Tgt Ion:122 Resp:     515
Ion   Ratio   Lower   Upper
122   100
107   135.4    98.3   147.5
121    66.7    44.7    67.1
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

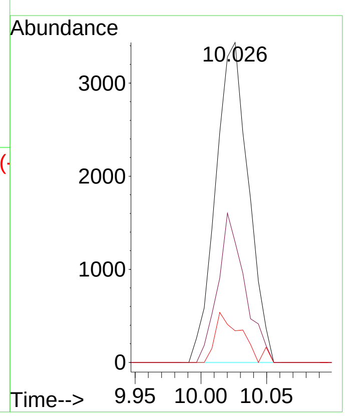
**Manual Integrations**
**APPROVED**

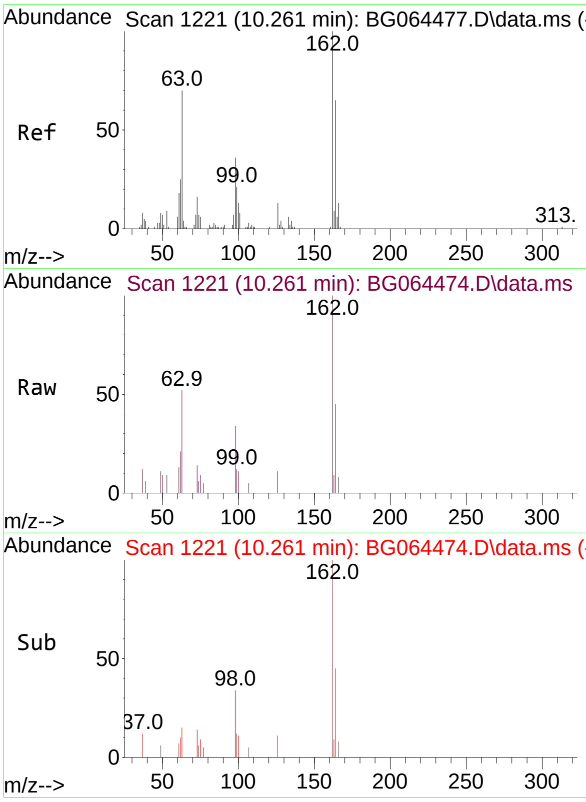
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




```
#28
bis(2-Chloroethoxy)methane
Concen:     4.662 ng
RT:   10.026 min   Scan# 1181
Delta R.T.   0.008 min
Lab File:    BG064474.D
Acq:  2 Oct 2025    9:42

Tgt Ion: 93 Resp:     5971
Ion   Ratio   Lower   Upper
 93   100
 95    37.5    26.5    39.7
123     9.9     8.9    13.3
```






#29
2,4-Dichlorophenol
Concen: 4.959 ng
RT: 10.261 min Scan# 1221
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:162 Resp: 6029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 45.3 | 45.4 | 85.4# |
| 98 | 34.3 | 16.4 | 56.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
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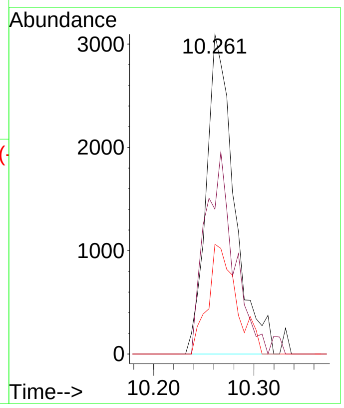
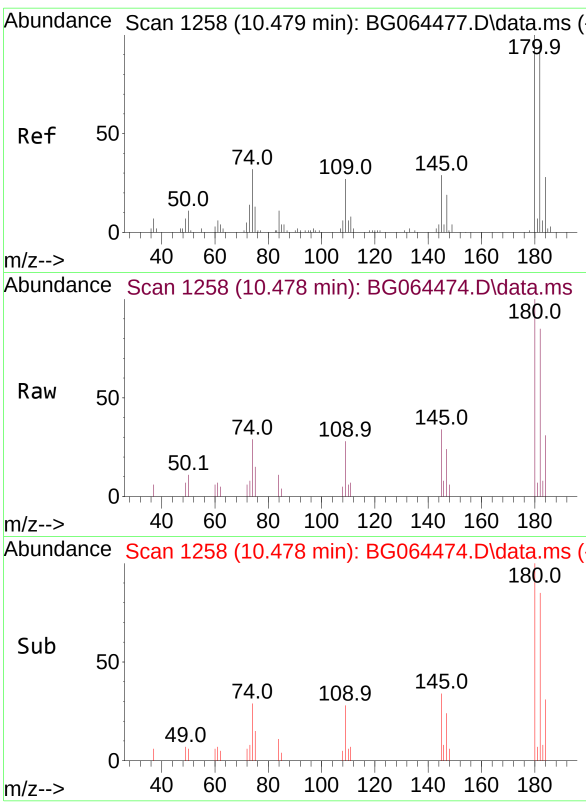
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

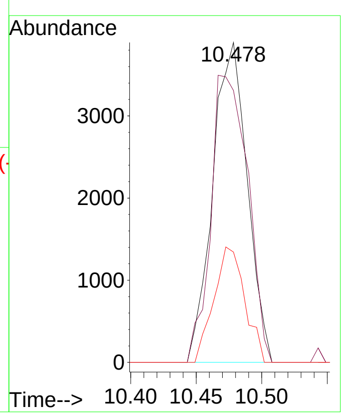



#30
1,2,4-Trichlorobenzene
Concen: 5.383 ng
RT: 10.478 min Scan# 1258
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:180 Resp: 7136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 85.0 | 75.4 | 113.2 |
| 145 | 34.5 | 23.2 | 34.8 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
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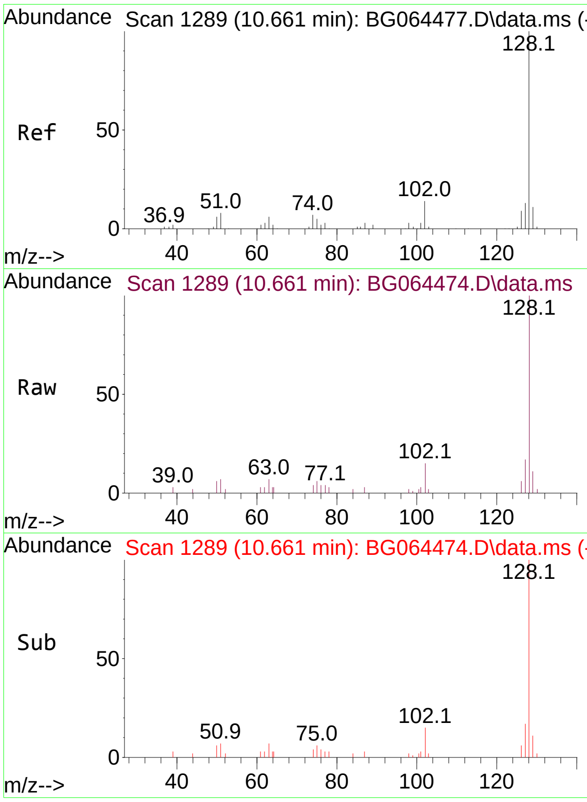
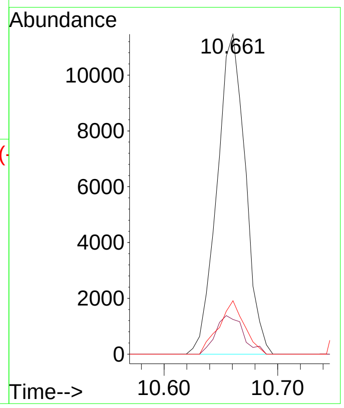
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

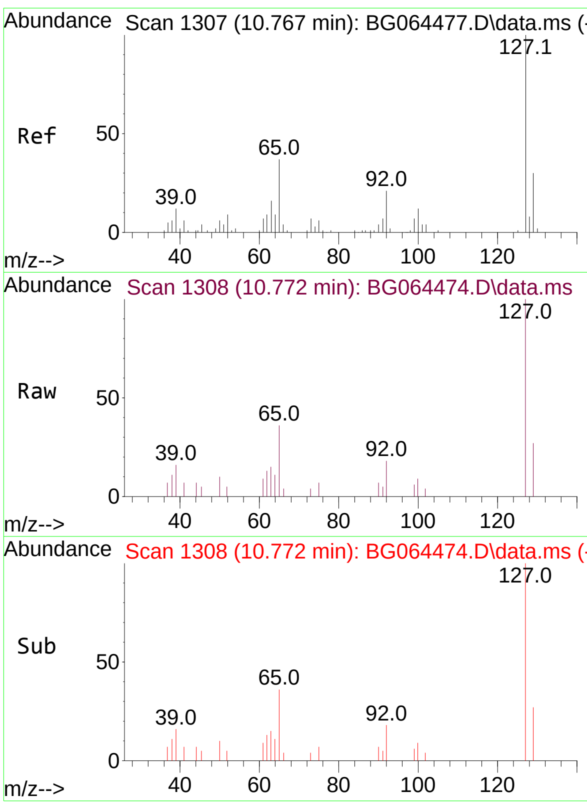



#31
Naphthalene
Concen: 5.158 ng
RT: 10.661 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:128 Resp: 1980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 8.7 | 13.1 |
| 127 | 16.7 | 10.2 | 15.2# |

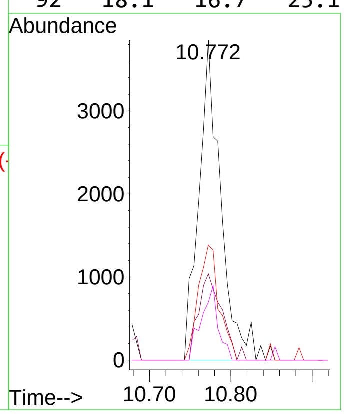


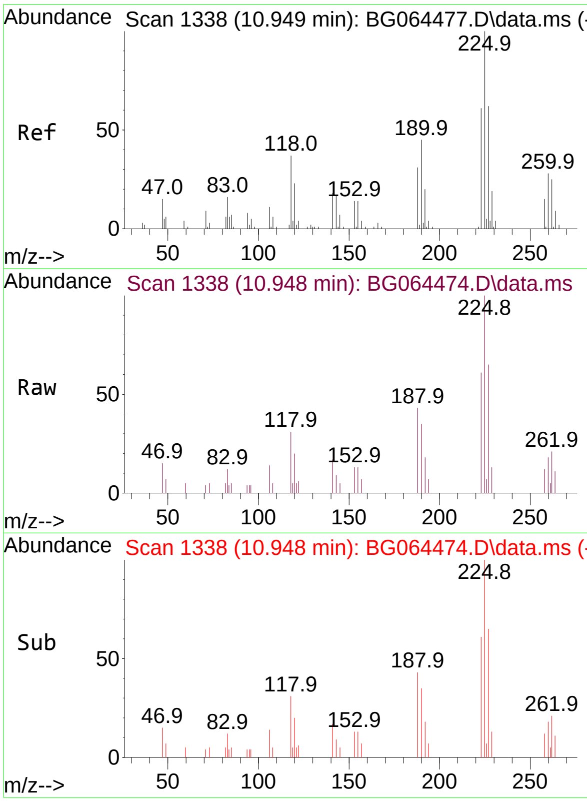




#33
4-Chloroaniline
Concen: 4.960 ng
RT: 10.772 min Scan# 1308
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:127 Resp: 7309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 26.9 | 24.2 | 36.4 |
| 65 | 36.0 | 29.6 | 44.4 |
| 92 | 18.1 | 16.7 | 25.1 |





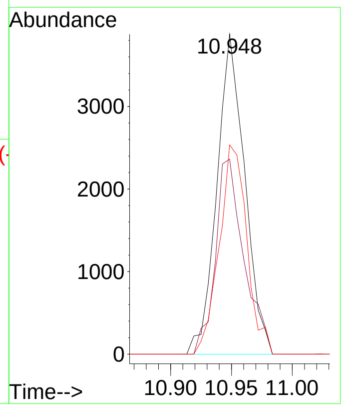

#34
Hexachlorobutadiene
Concen: 5.435 ng
RT: 10.948 min Scan# 13
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

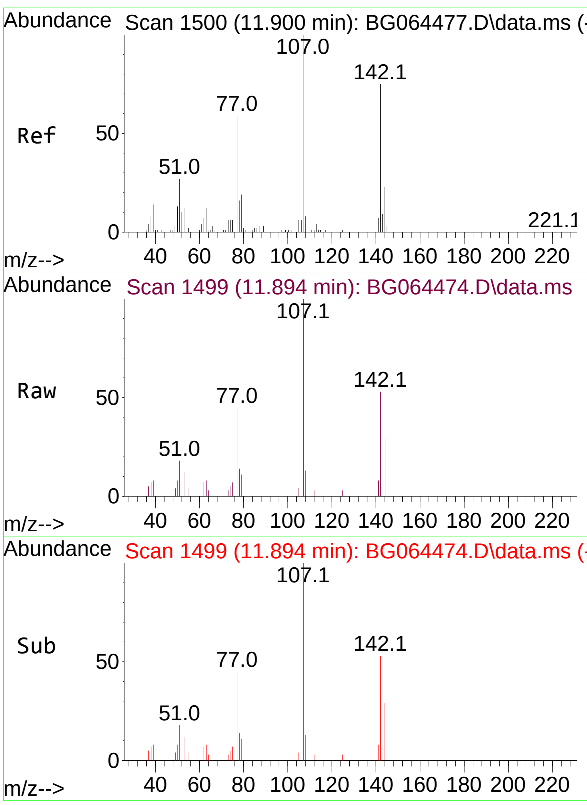
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:225 Resp: 617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.9 | 49.0 | 73.6 |
| 227 | 65.4 | 49.9 | 74.9 |

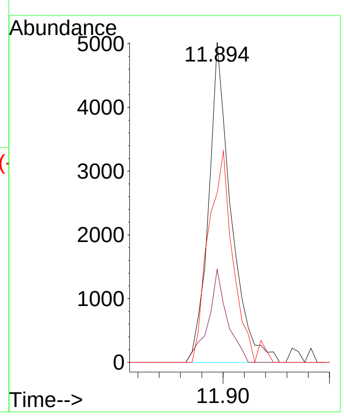



#36
4-Chloro-3-methylphenol
Concen: 4.978 ng
RT: 11.894 min Scan# 1499
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:107 Resp: 7360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 29.0 | 18.7 | 28.1# |
| 142 | 58.3 | 60.2 | 90.2# |



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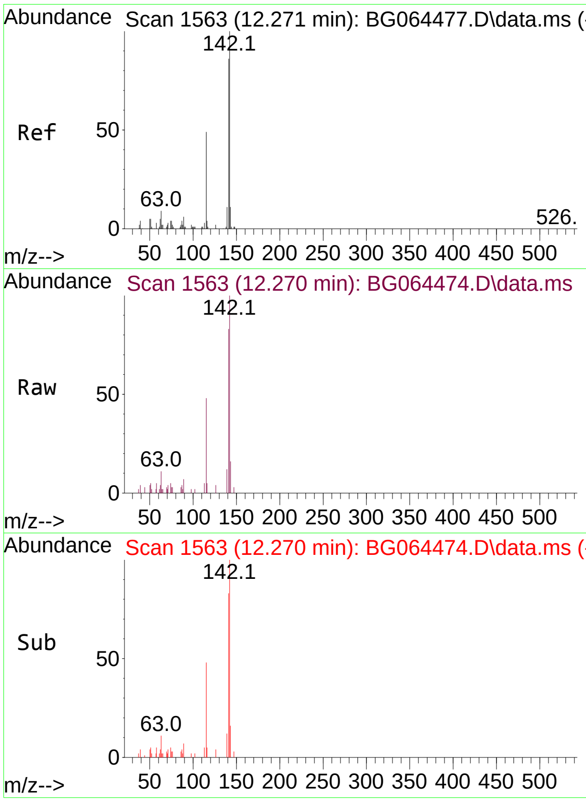



#37
2-Methylnaphthalene
Concen:    4.953 ng
RT:  12.270 min  Scan# 1
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

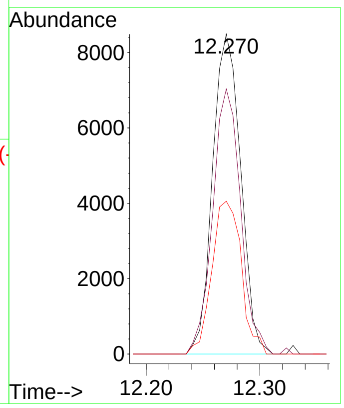
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

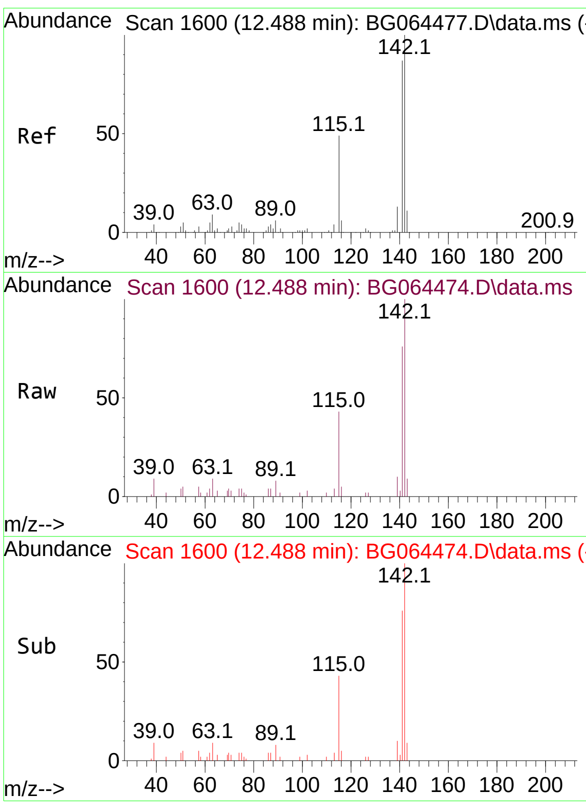
Tgt Ion:142 Resp:   1460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.8 | 68.7 | 103.1 |
| 115 | 47.8 | 39.3 | 58.9 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

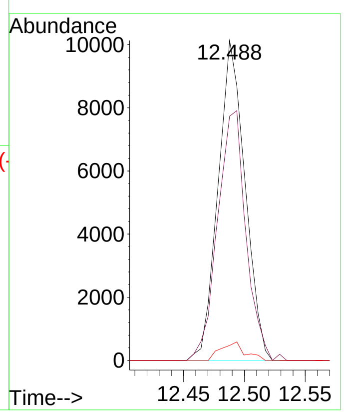


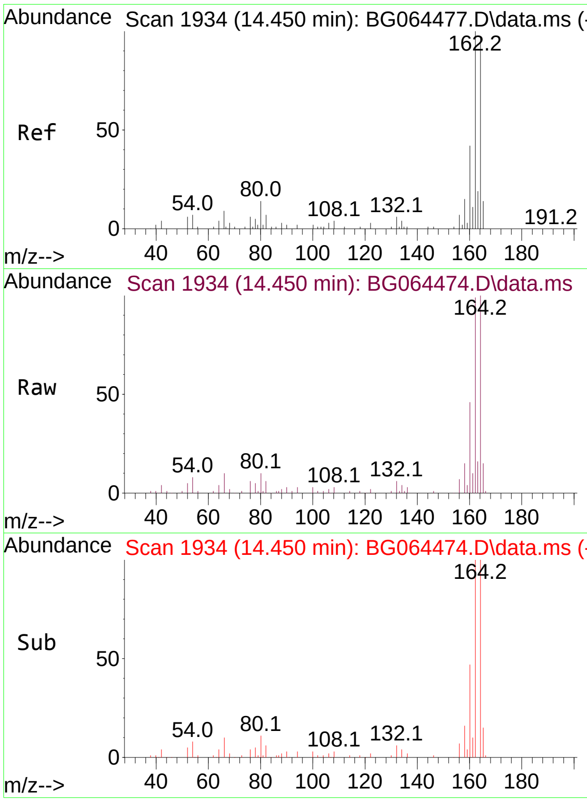

#38
1-Methylnaphthalene
Concen:    5.311 ng
RT:  12.488 min  Scan# 1600
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:142 Resp:   15610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 76.4 | 69.8 | 104.8 |
| 116 | 4.7 | 4.6 | 6.8 |



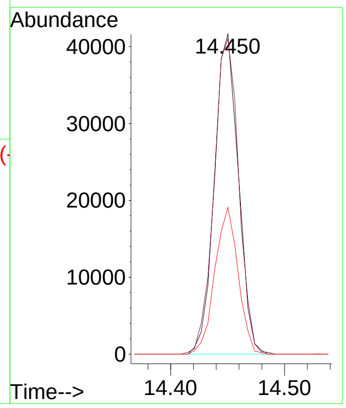
ICAL Form




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.450 min Scan# 19
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:164 Resp: 6073

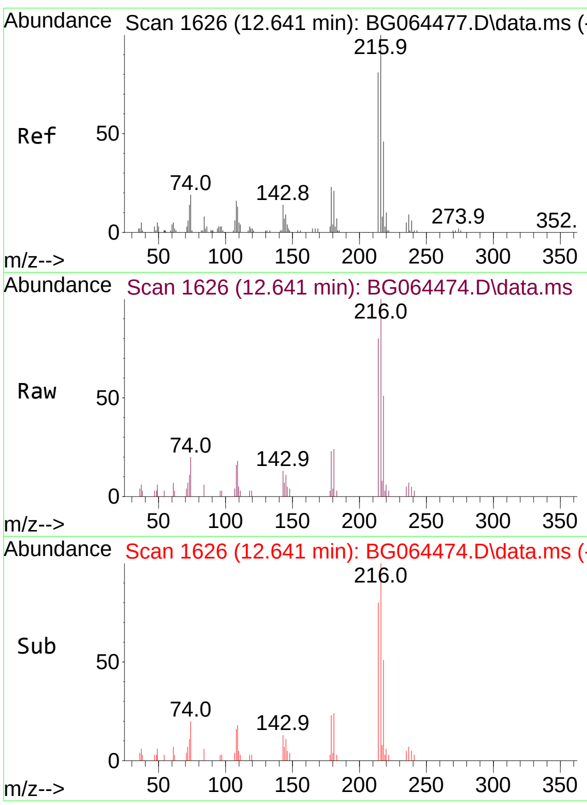
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.5 | 82.2 | 123.2 |
| 160 | 45.8 | 34.3 | 51.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

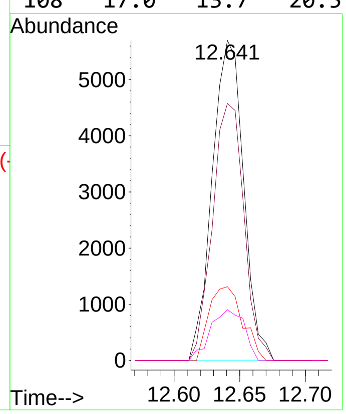
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



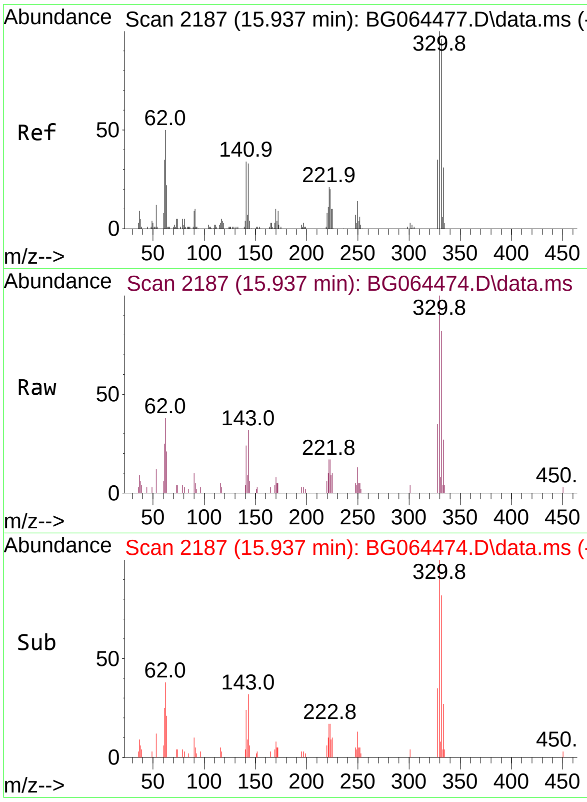

#40
1,2,4,5-Tetrachlorobenzene
Concen: 4.820 ng
RT: 12.641 min Scan# 1626
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:216 Resp: 9451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 80.6 | 62.5 | 93.7 |
| 179 | 24.8 | 17.0 | 25.6 |
| 108 | 17.0 | 13.7 | 20.5 |



ICAL Form



#42
2,4,6-Tribromophenol
Concen: 10.043 ng
RT: 15.937 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

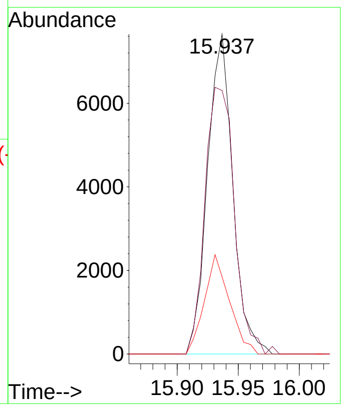
Tgt Ion:330 Resp: 11056

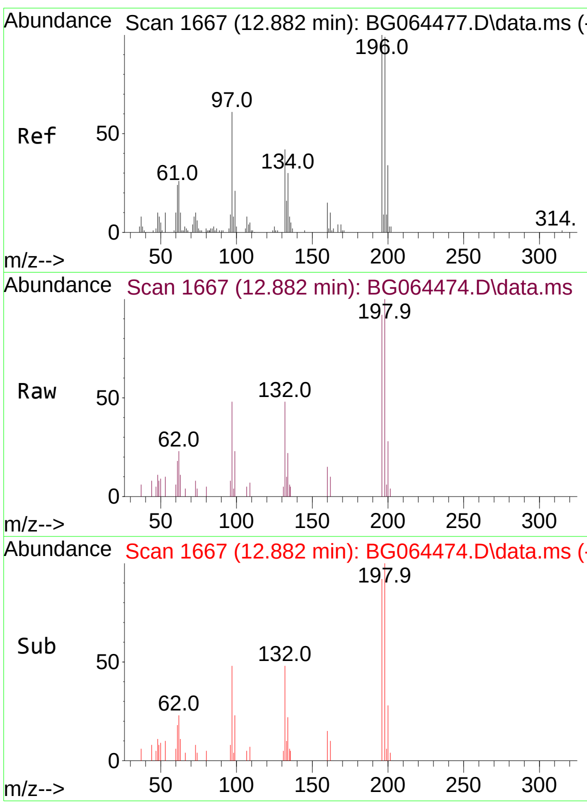
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.8 | 77.4 | 116.0 |
| 141 | 30.8 | 25.8 | 38.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

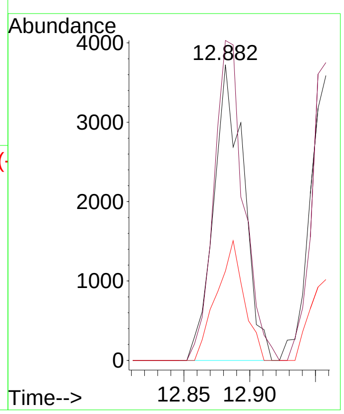


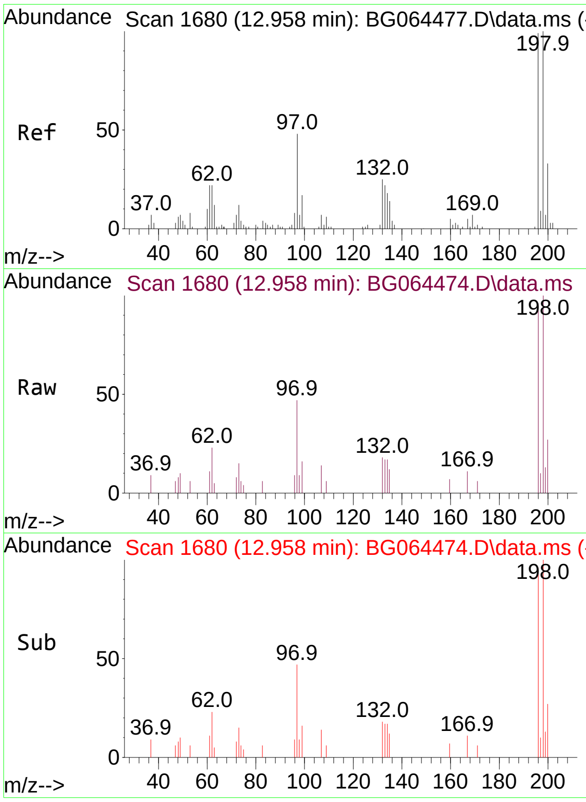


#43
2,4,6-Trichlorophenol
Concen: 4.742 ng
RT: 12.882 min Scan# 1667
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:196 Resp: 5944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 108.3 | 79.3 | 118.9 |
| 200 | 30.2 | 27.4 | 41.2 |






#44
2,4,5-Trichlorophenol
Concen:    4.890 ng
RT:  12.958 min   Scan# 16
Delta R.T.   0.002 min
Lab File:    BG064474.D
Acq:  2 Oct 2025   9:42

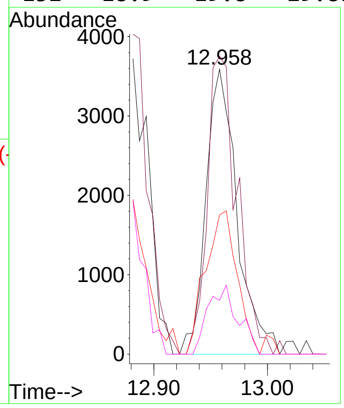
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

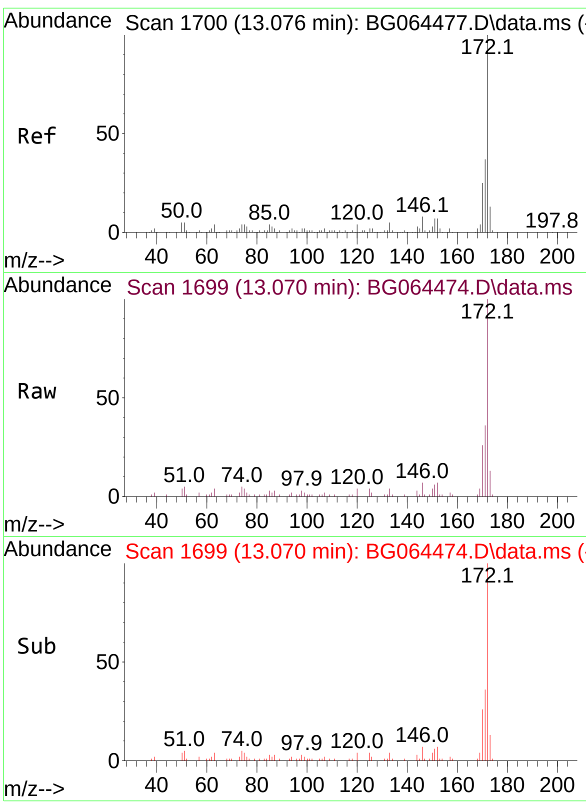
Tgt Ion:196 Resp:    684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 104.6 | 80.3 | 120.5 |
| 97 | 48.8 | 39.4 | 59.0 |
| 132 | 18.9 | 19.8 | 29.8# |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli    10/03/2025
Supervised By :Jagrut Upadhyay    10/03/2025

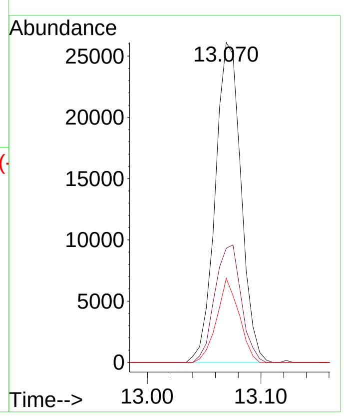


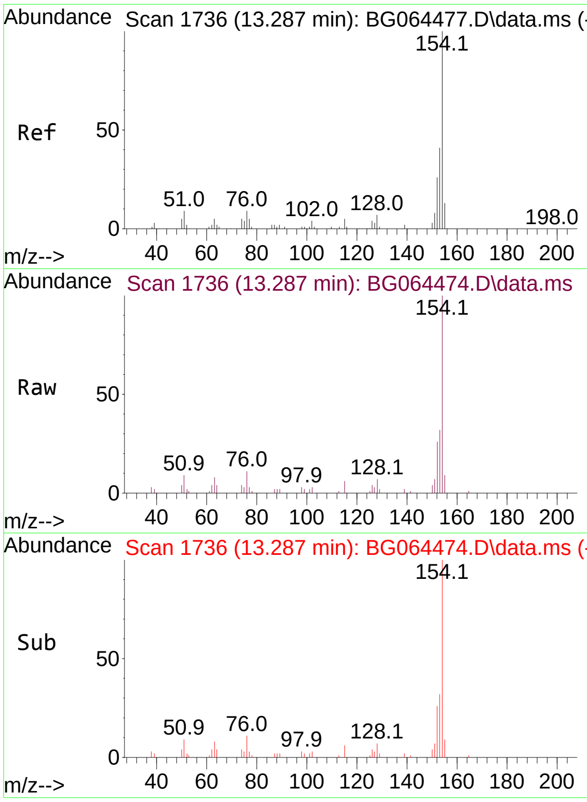

#45
2-Fluorobiphenyl
Concen:    9.988 ng
RT:  13.070 min   Scan# 1699
Delta R.T.   0.002 min
Lab File:    BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:172 Resp:    41153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.6 | 44.4 |
| 170 | 26.3 | 20.2 | 30.2 |



ICAL Form




#46
1,1'-Biphenyl
Concen: 5.003 ng
RT: 13.287 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

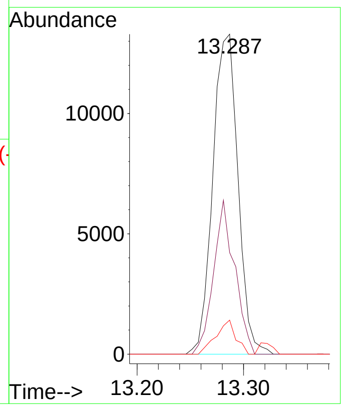
Tgt Ion:154 Resp: 21854

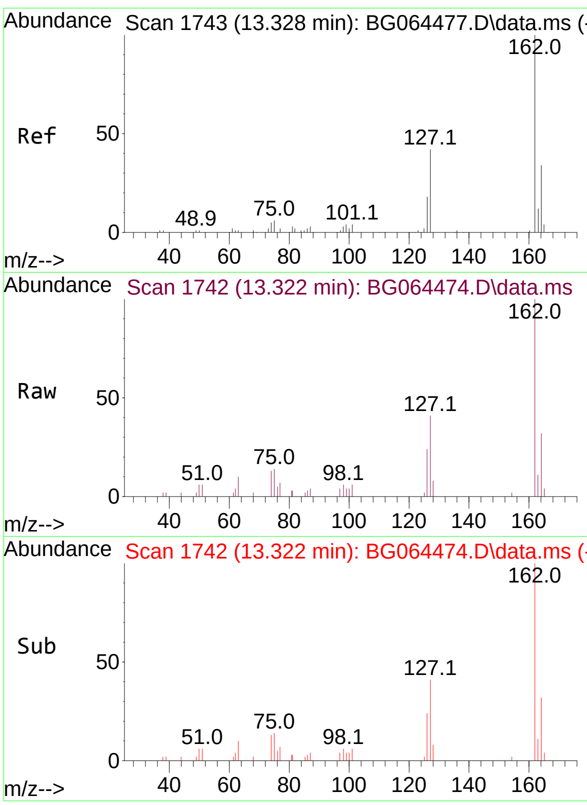
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 31.7 | 20.7 | 60.7 |
| 76 | 10.6 | 0.0 | 29.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

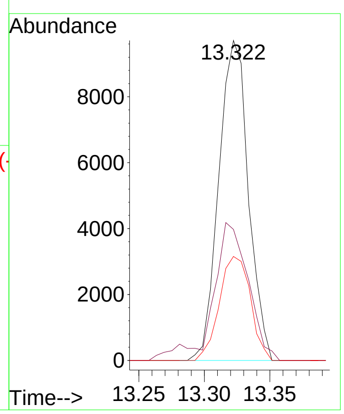


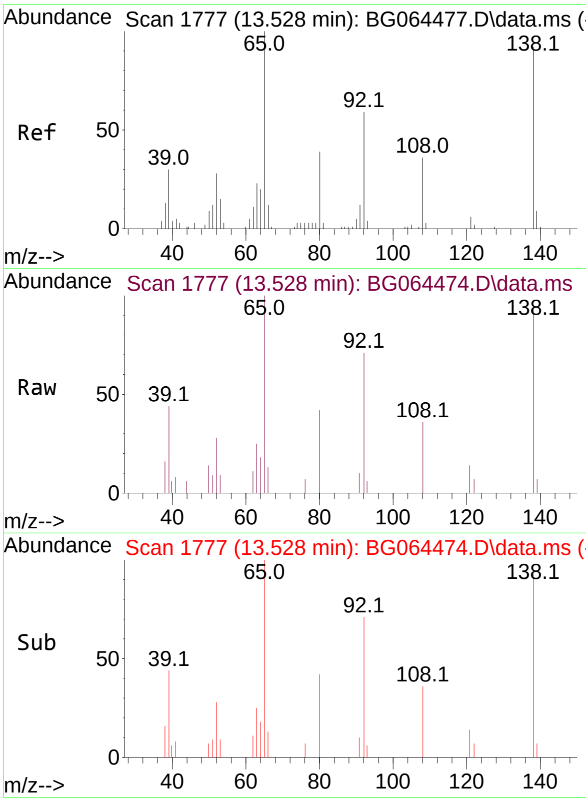

#47
2-Chloronaphthalene
Concen: 4.685 ng
RT: 13.322 min Scan# 1742
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:162 Resp: 15278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 40.9 | 35.8 | 53.8 |
| 164 | 32.5 | 27.2 | 40.8 |



ICAL Form




#48
2-Nitroaniline
Concen: 4.107 ng
RT: 13.528 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

Tgt Ion: 65 Resp: 457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 70.6 | 47.0 | 70.6# |
| 138 | 92.7 | 73.5 | 110.3 |

**Manual Integrations**
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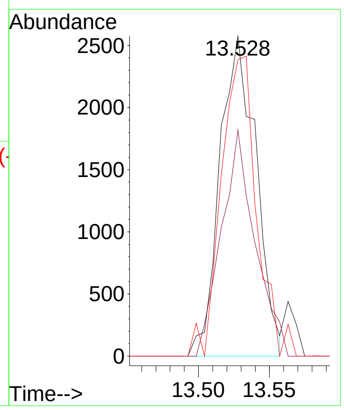
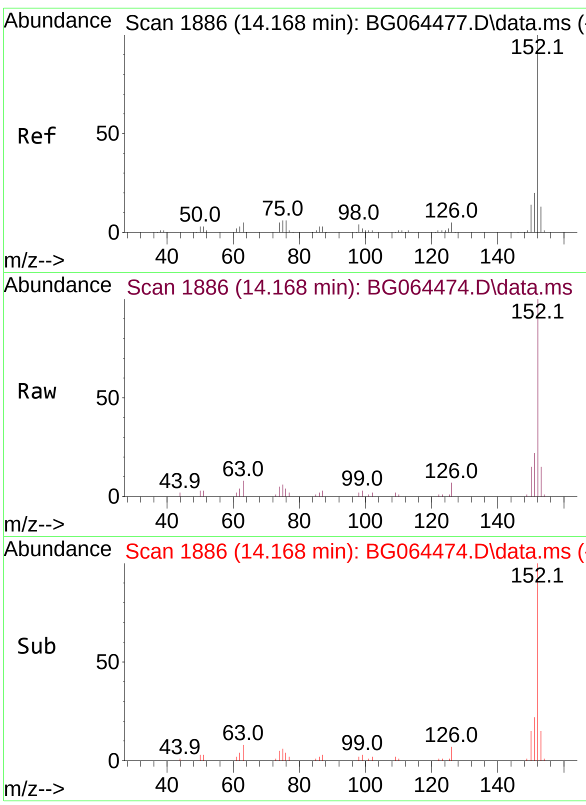
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

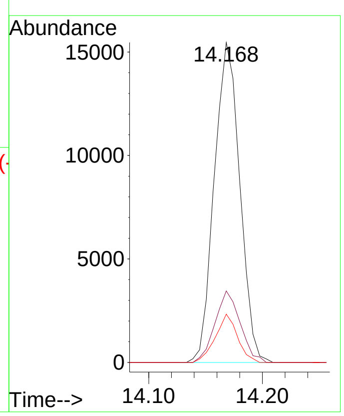


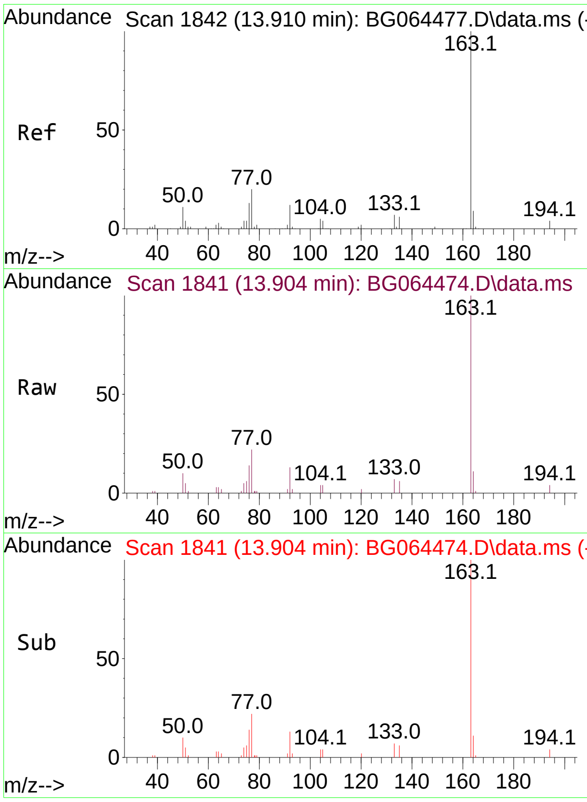




#49
Acenaphthylene
Concen: 4.990 ng
RT: 14.168 min Scan# 1886
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:152 Resp: 24156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.3 | 15.8 | 23.6 |
| 153 | 15.1 | 10.6 | 15.8 |





#50
Dimethylphthalate
Concen: 4.992 ng
RT: 13.904 min Scan# 18
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

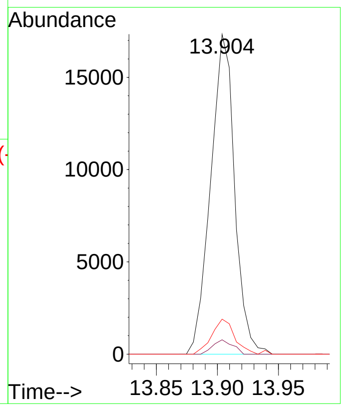
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

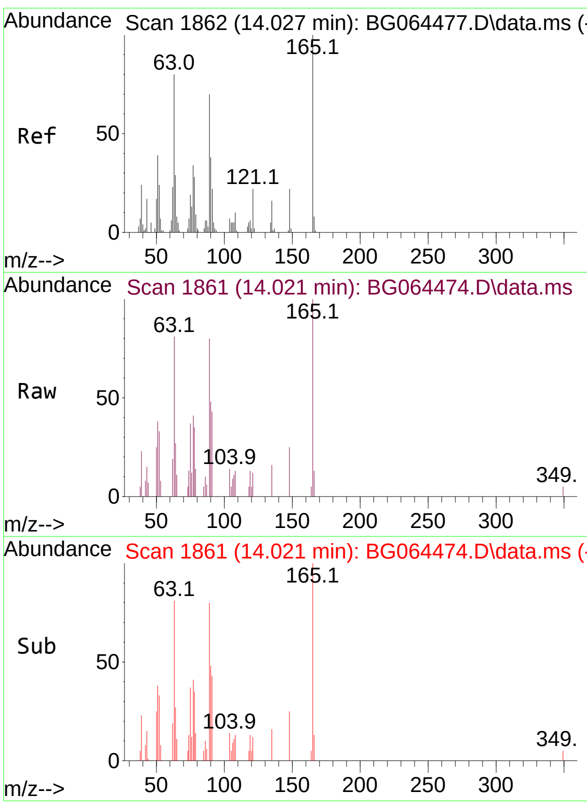
Tgt Ion:163 Resp: 23745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.5 | 2.9 | 4.3# |
| 164 | 10.9 | 7.4 | 11.0 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

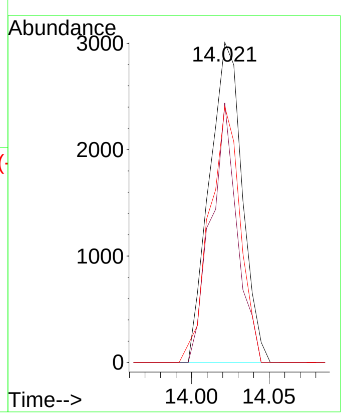




#51
2,6-Dinitrotoluene
Concen: 4.470 ng
RT: 14.021 min Scan# 1861
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:165 Resp: 4429

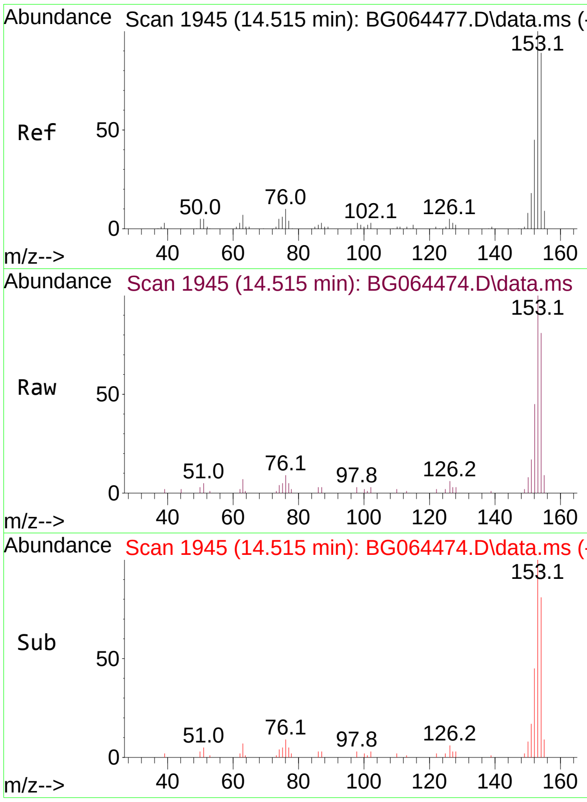
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 81.1 | 63.9 | 95.9 |
| 89 | 80.0 | 56.1 | 84.1 |



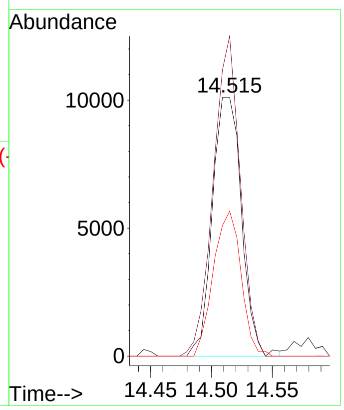
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

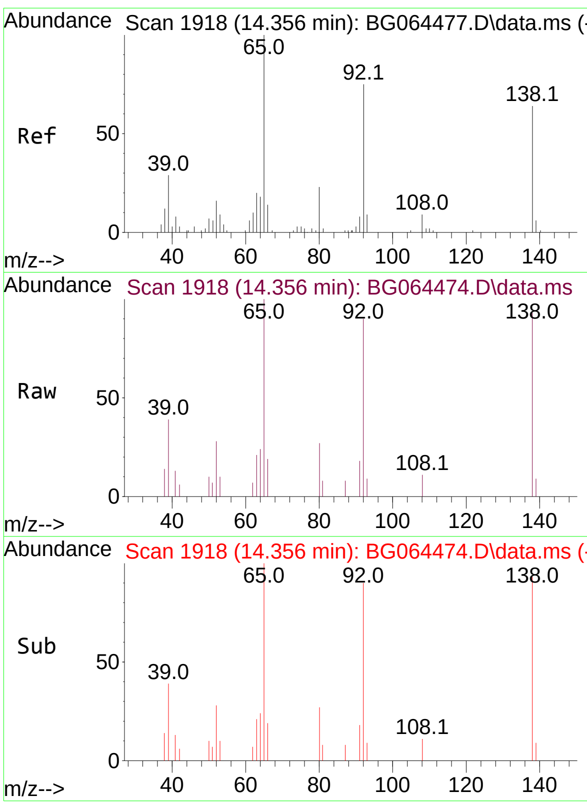
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

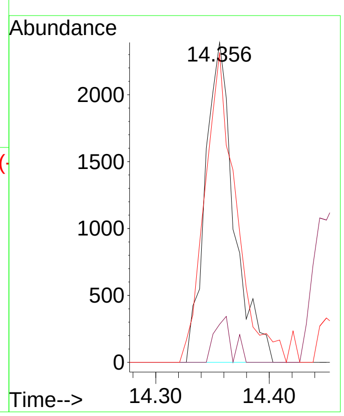



```
#52
Acenaphthene
Concen:    5.000 ng
RT:  14.515 min  Scan# 19
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:154 Resp:   1681
Ion  Ratio  Lower  Upper
154  100
153  123.7   90.2  135.4
152   56.0   40.2   60.4
```

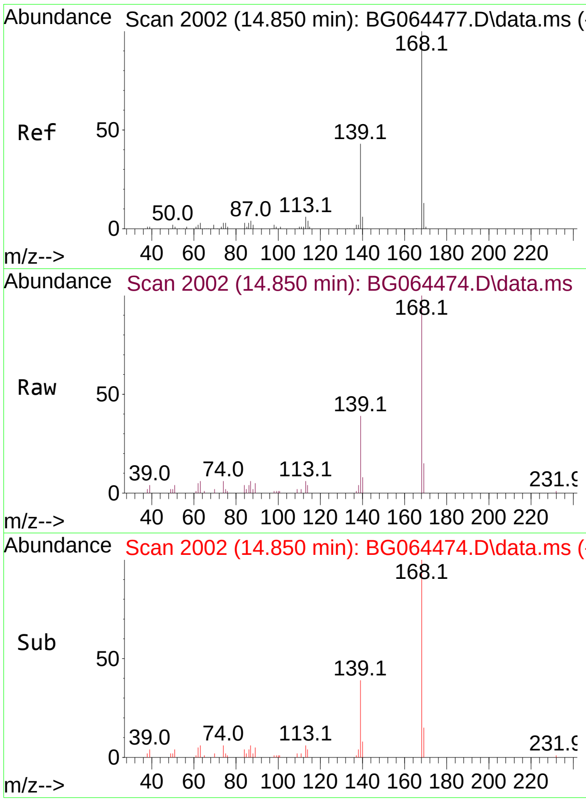



```
#53
3-Nitroaniline
Concen:    4.630 ng
RT:  14.356 min  Scan# 1918
Delta R.T.  0.008 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:138 Resp:    4231
Ion  Ratio  Lower  Upper
138  100
108   11.9   10.6   15.8
 92   96.8   93.2  139.8
```



ICAL Form




#55
Dibenzofuran
Concen: 5.022 ng
RT: 14.850 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

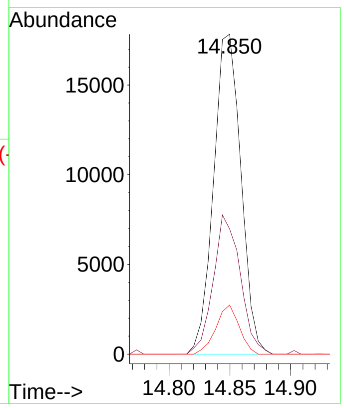
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

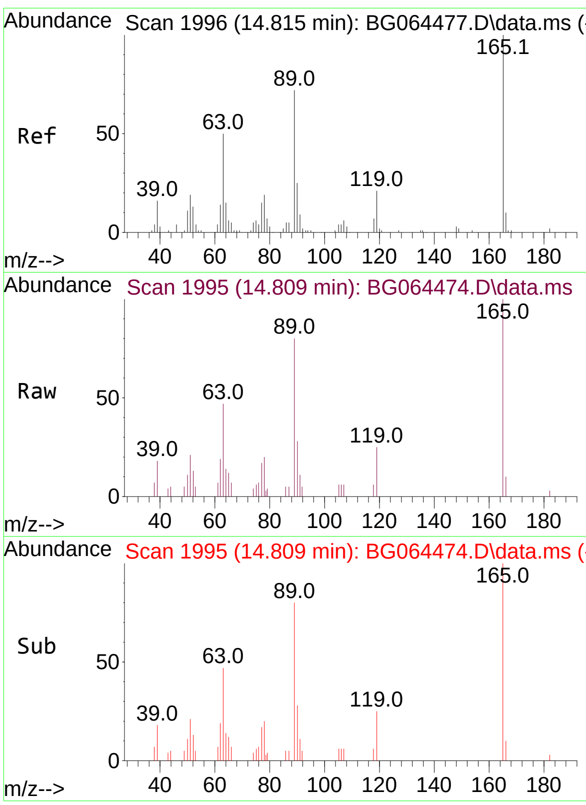
Tgt Ion:168 Resp: 2788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.1 | 34.0 | 51.0 |
| 169 | 15.3 | 10.2 | 15.2# |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

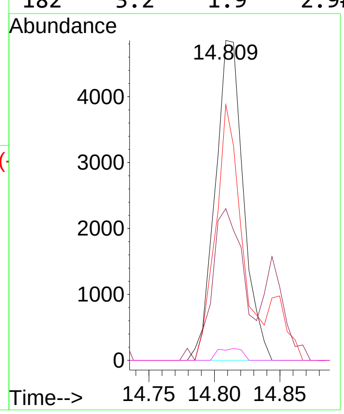


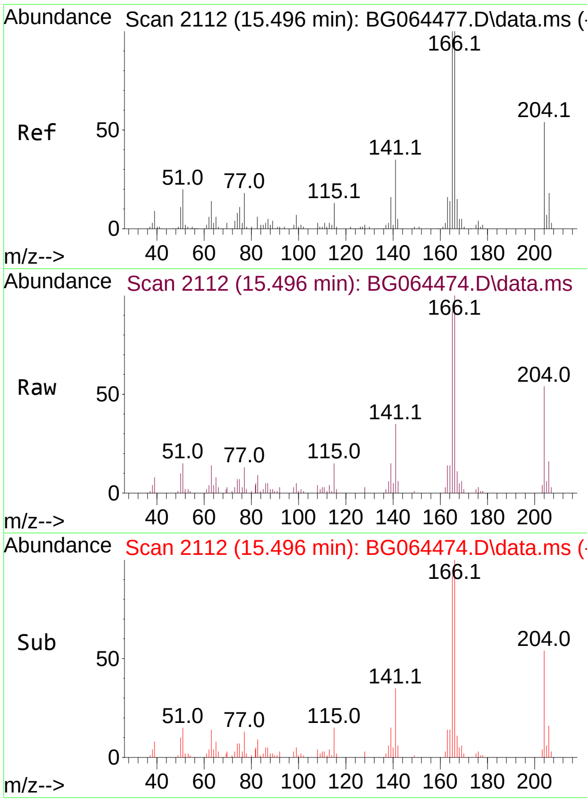




#57
2,4-Dinitrotoluene
Concen: 4.826 ng
RT: 14.809 min Scan# 1995
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:165 Resp: 7310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 47.4 | 40.4 | 60.6 |
| 89 | 79.9 | 57.3 | 85.9 |
| 182 | 3.2 | 1.9 | 2.9# |





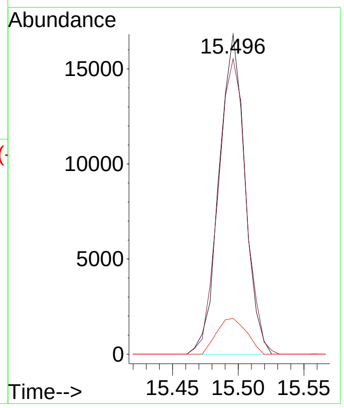

#58
Fluorene
Concen: 4.994 ng
RT: 15.496 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

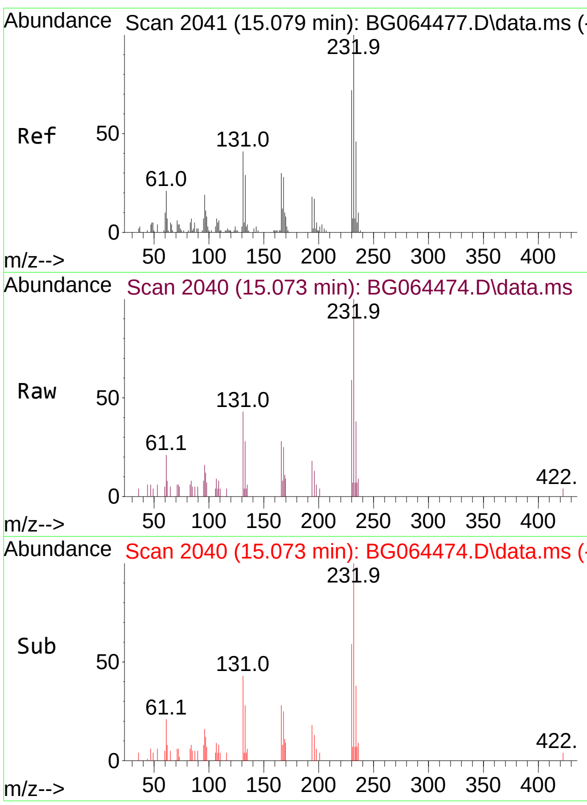
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

Tgt Ion:166 Resp: 2305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 92.3 | 79.8 | 119.6 |
| 167 | 11.2 | 11.7 | 17.5# |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

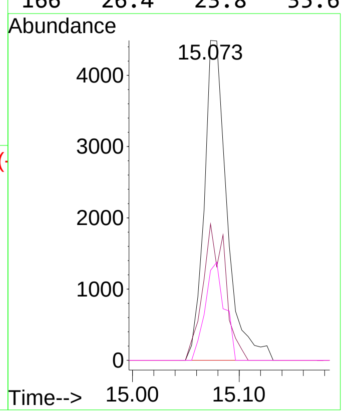


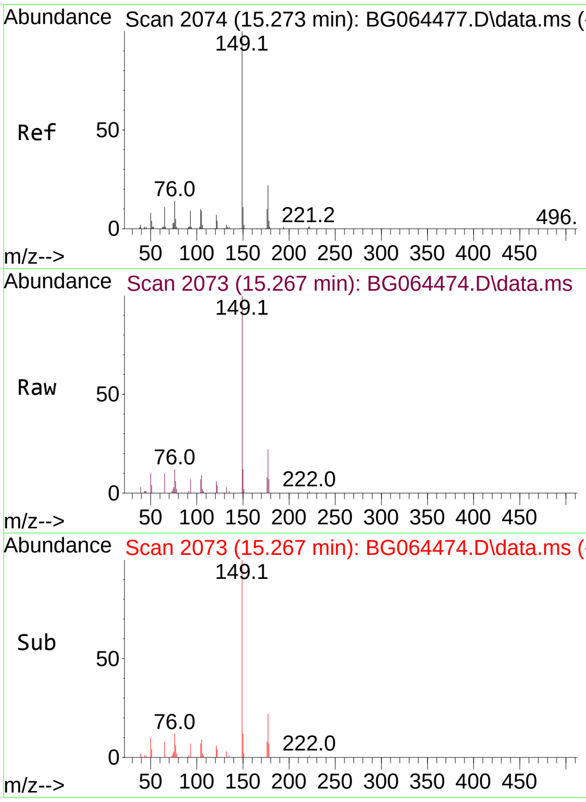

#59
2,3,4,6-Tetrachlorophenol
Concen: 4.658 ng
RT: 15.073 min Scan# 2040
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:232 Resp: 6653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 42.3 | 35.0 | 52.4 |
| 130 | 0.0 | 2.0 | 3.0# |
| 166 | 26.4 | 23.8 | 35.6 |



ICAL Form




#60
Diethylphthalate
Concen: 5.198 ng
RT: 15.267 min Scan# 20
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

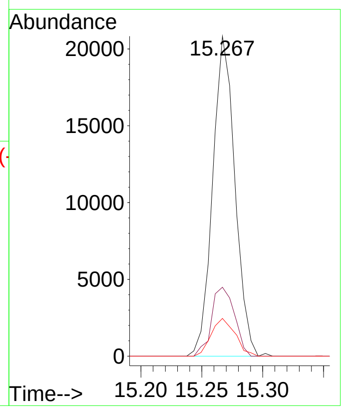
Tgt Ion:149 Resp: 26525

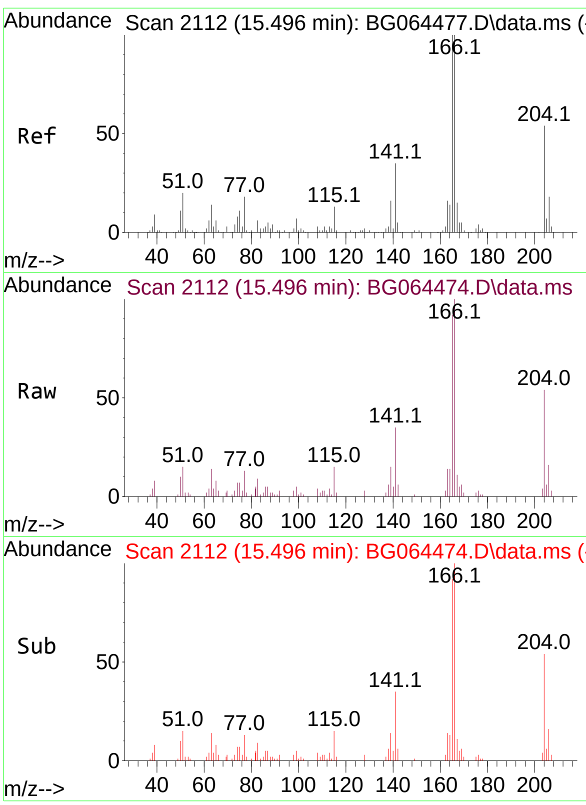
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 21.5 | 17.4 | 26.0 |
| 150 | 11.8 | 9.1 | 13.7 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

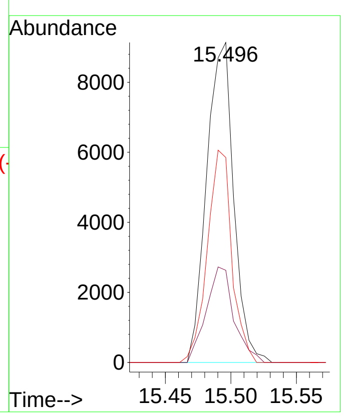



#61
4-Chlorophenyl-phenylether
Concen: 5.215 ng
RT: 15.496 min Scan# 2112
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:204 Resp: 13144

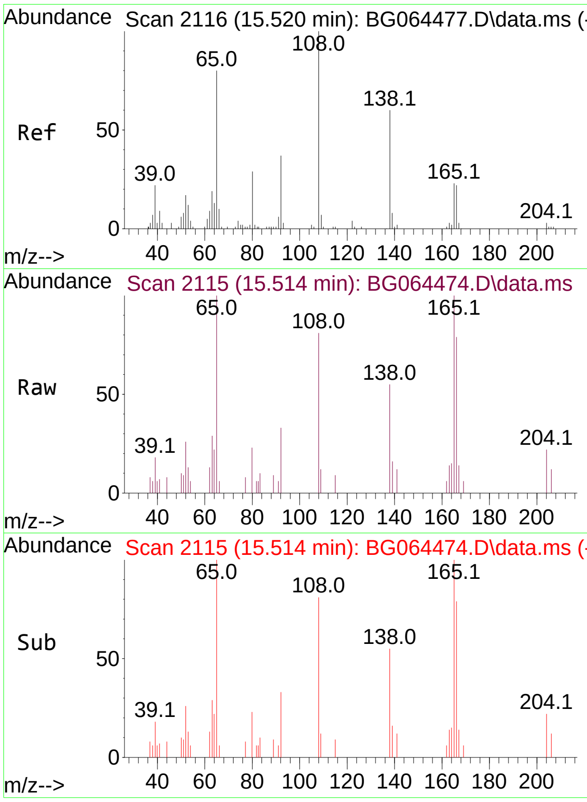
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 28.8 | 27.1 | 40.7 |
| 141 | 64.0 | 51.5 | 77.3 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

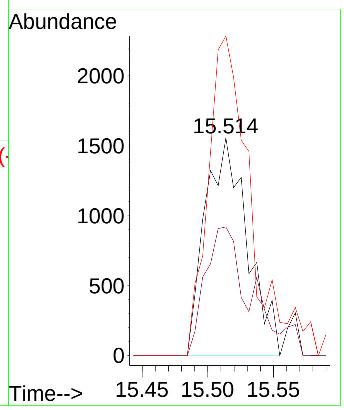
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

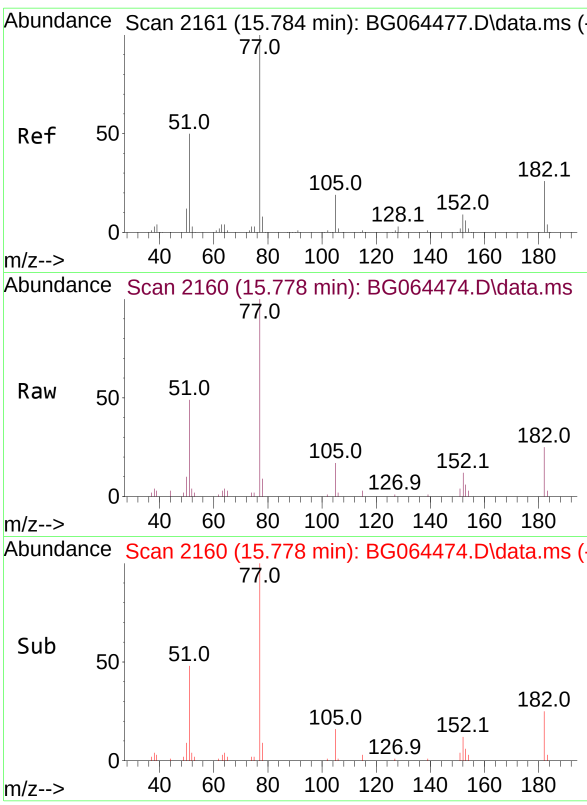



#62
4-Nitroaniline
Concen: 3.655 ng
RT: 15.514 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:138 Resp: 348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 59.1 | 42.3 | 82.3 |
| 108 | 146.8 | 147.7 | 187.7# |

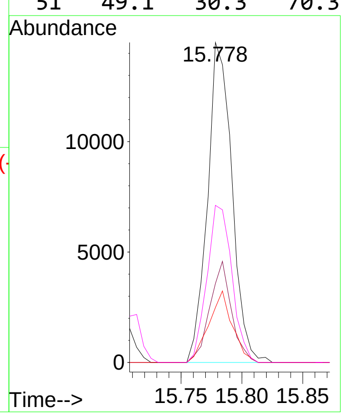



#63
Azobenzene
Concen: 5.144 ng
RT: 15.778 min Scan# 2160
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion: 77 Resp: 20327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.6 | 6.3 | 46.3 |
| 105 | 17.1 | 0.0 | 38.7 |
| 51 | 49.1 | 30.3 | 70.3 |



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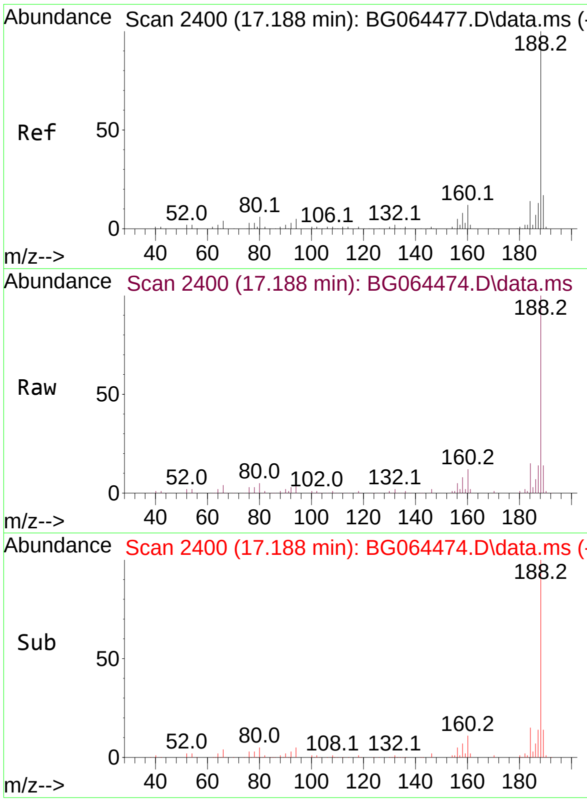
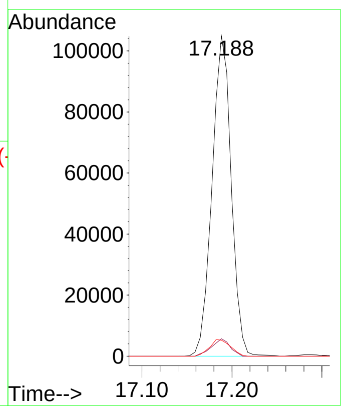


#64
Phenanthrene-d10
Concen:   20.000 ng
RT:  17.188 min  Scan# 24
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:188 Resp:  155342

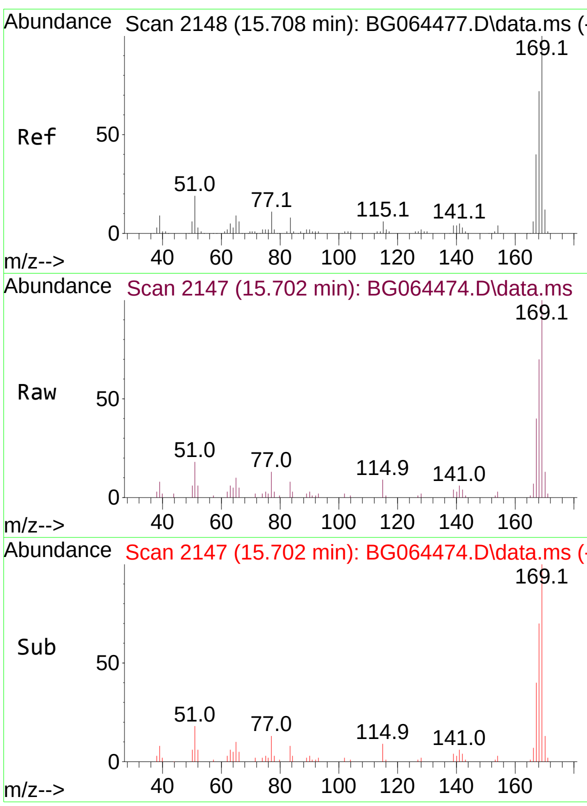
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 5.4 | 3.7 | 5.5 |
| 80 | 5.0 | 4.5 | 6.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

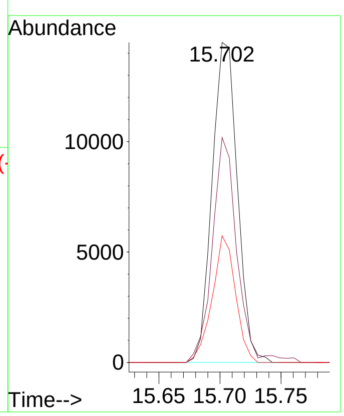
Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

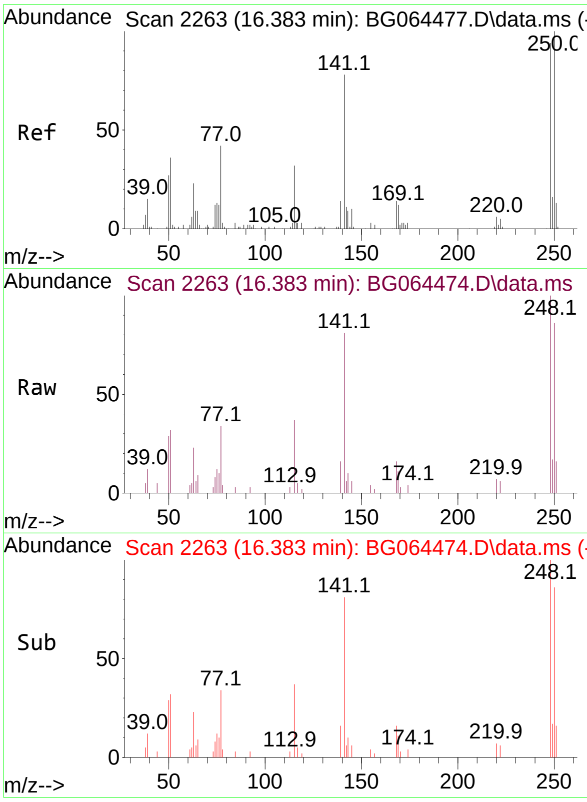


#66
n-Nitrosodiphenylamine
Concen:   5.053 ng
RT:  15.702 min  Scan# 2147
Delta R.T.  -0.004 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:169 Resp:   20960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 70.3 | 57.8 | 86.6 |
| 167 | 39.6 | 31.7 | 47.5 |






#67
4-Bromophenyl-phenylether
Concen: 5.002 ng
RT: 16.383 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

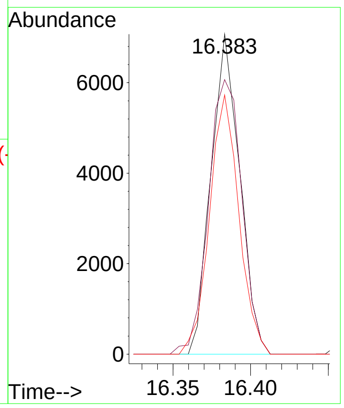
Tgt Ion:248 Resp: 914

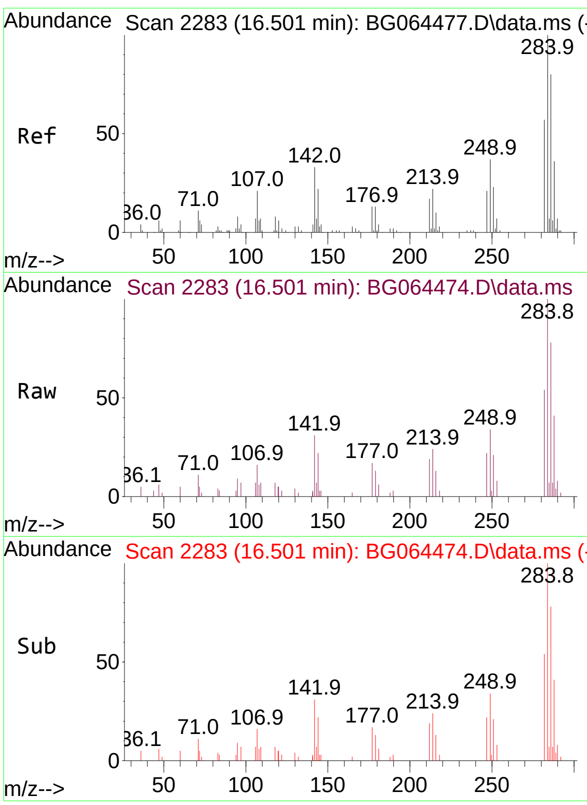
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 85.8 | 85.3 | 127.9 |
| 141 | 81.0 | 66.2 | 99.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

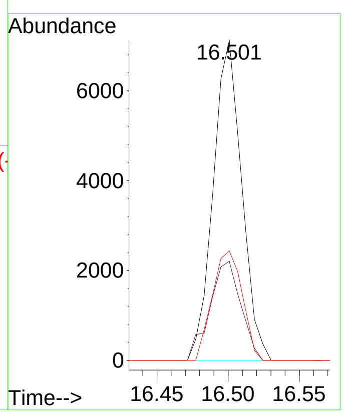


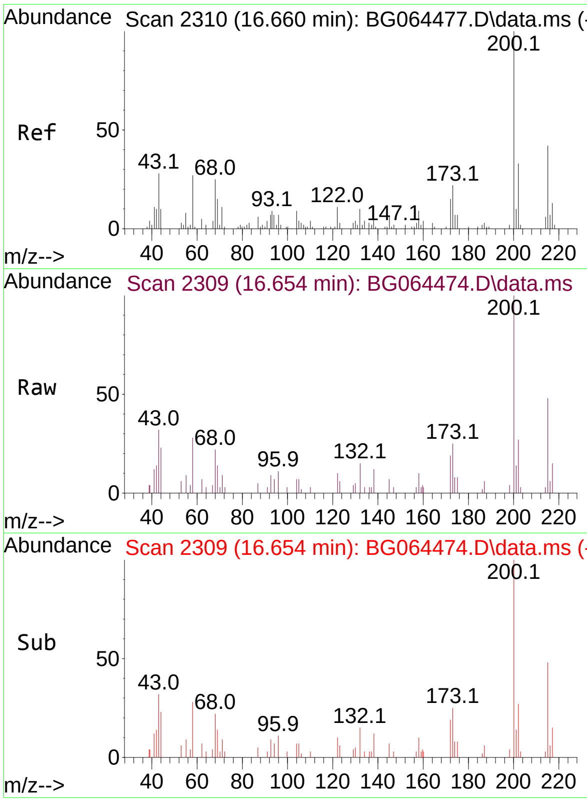




#68
Hexachlorobenzene
Concen: 4.747 ng
RT: 16.501 min Scan# 2283
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:284 Resp: 9929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 31.0 | 26.2 | 39.2 |
| 249 | 36.8 | 29.4 | 44.0 |

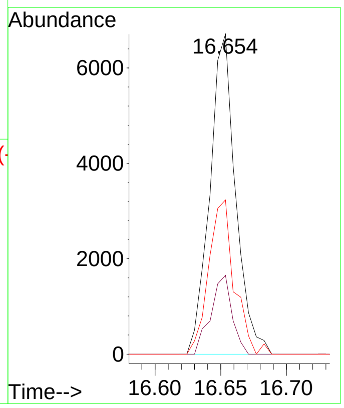





#69
Atrazine
Concen: 4.979 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:200 Resp: 918

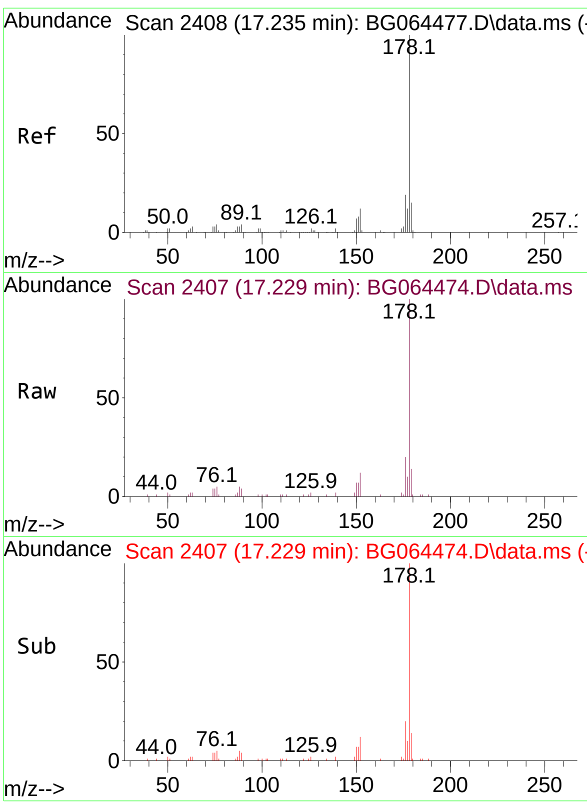
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.6 | 2.5 | 42.5 |
| 215 | 48.2 | 21.5 | 61.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

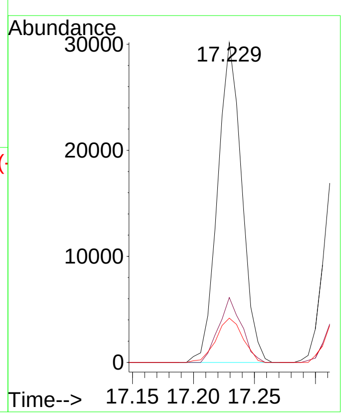
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#71
Phenanthrene
Concen: 5.126 ng
RT: 17.229 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:178 Resp: 41639

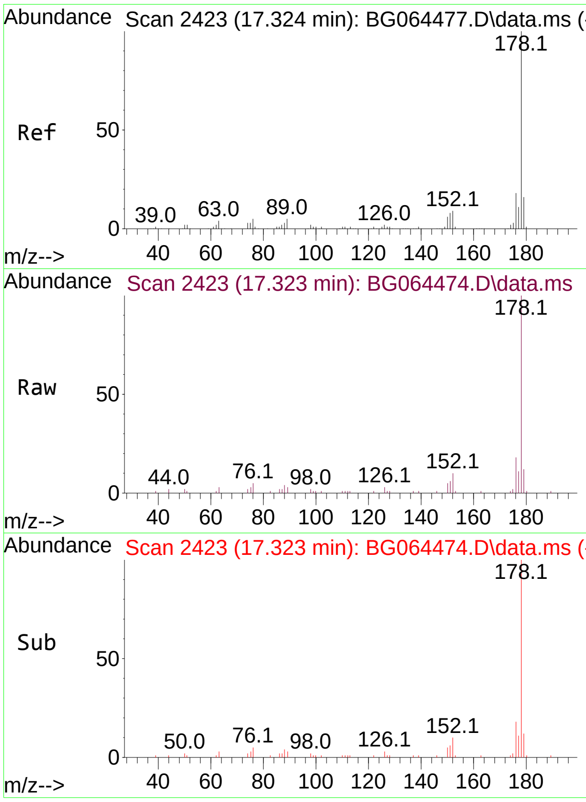
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.3 | 15.2 | 22.8 |
| 179 | 13.8 | 11.8 | 17.6 |



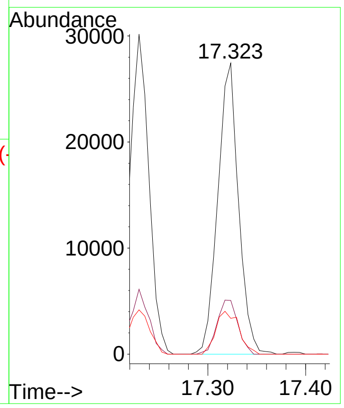
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

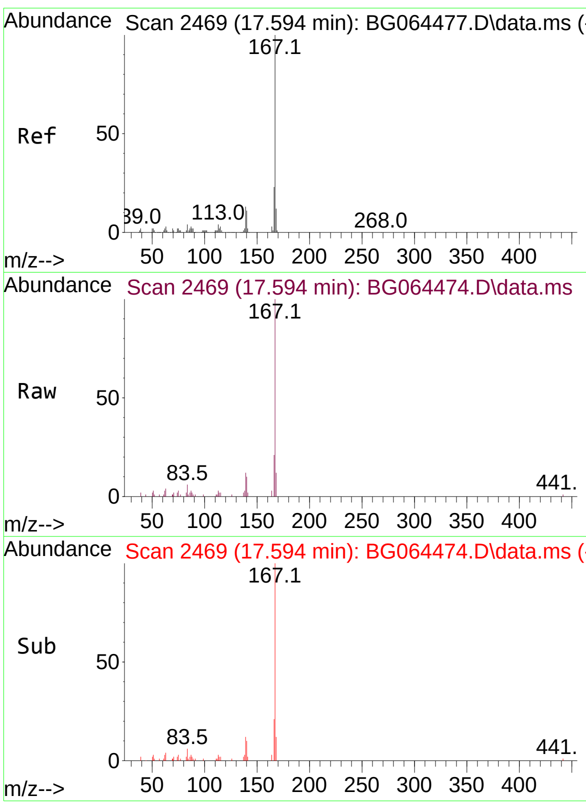
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

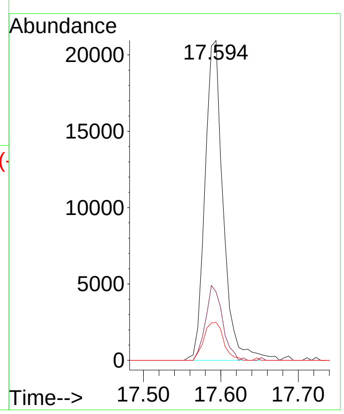


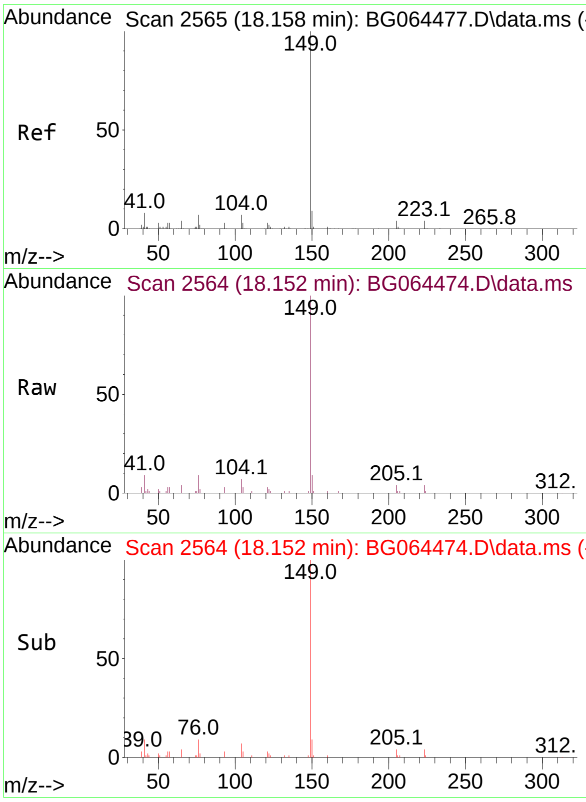

```
#72
Anthracene
Concen:    4.978 ng  m
RT:  17.323 min  Scan# 24
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:178 Resp:   4056
Ion  Ratio  Lower  Upper
178  100
176   18.4   14.6   21.8
179   12.3   12.5   18.7
```




```
#73
Carbazole
Concen:    4.870 ng
RT:  17.594 min  Scan# 2469
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:167 Resp:   34305
Ion  Ratio  Lower  Upper
167  100
166   21.4   18.6   27.8
139   11.9   10.2   15.4
```






#74
Di-n-butylphthalate
Concen: 4.950 ng
RT: 18.152 min Scan# 2!
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

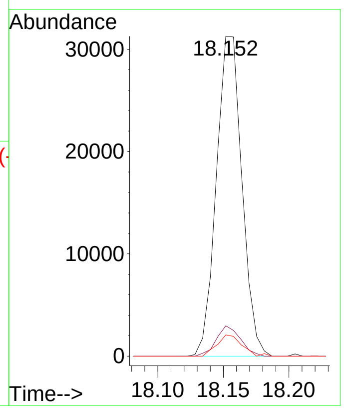
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

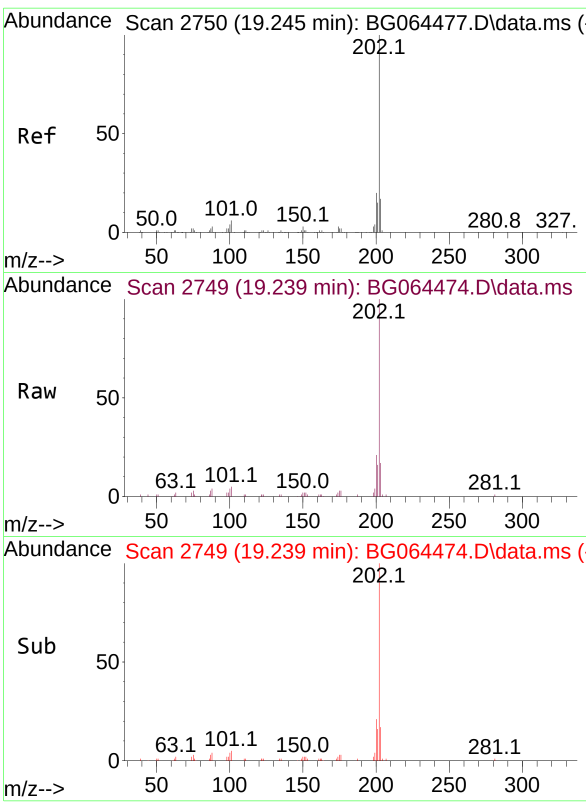
Tgt Ion:149 Resp: 4256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.5 | 7.4 | 11.2 |
| 104 | 6.6 | 5.3 | 7.9 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

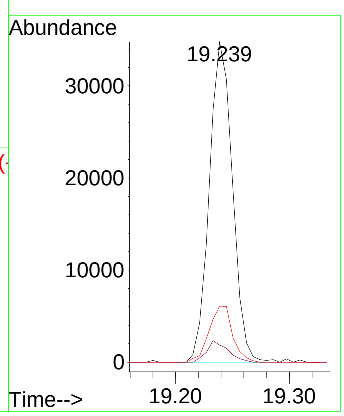



#75
Fluoranthene
Concen: 5.080 ng
RT: 19.239 min Scan# 2749
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:202 Resp: 49301

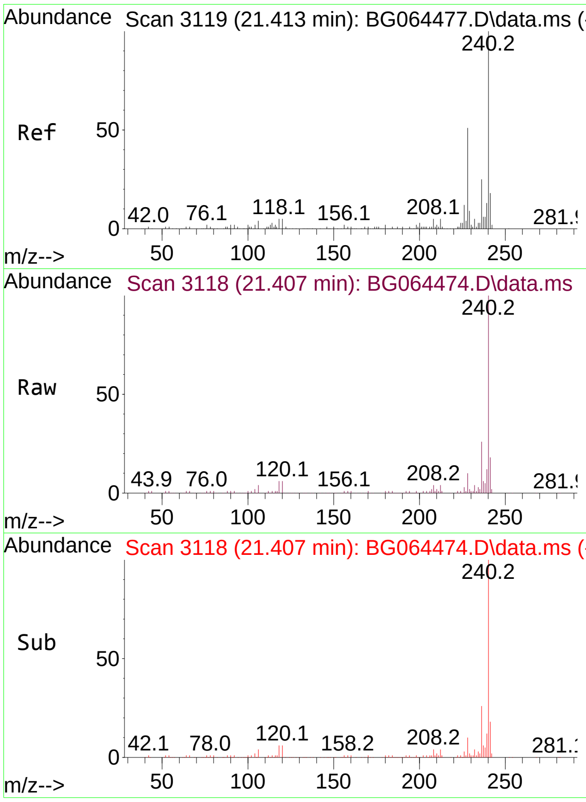
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.3 | 0.0 | 25.7 |
| 203 | 17.5 | 0.0 | 36.6 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

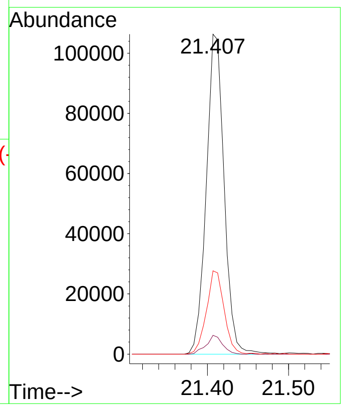
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

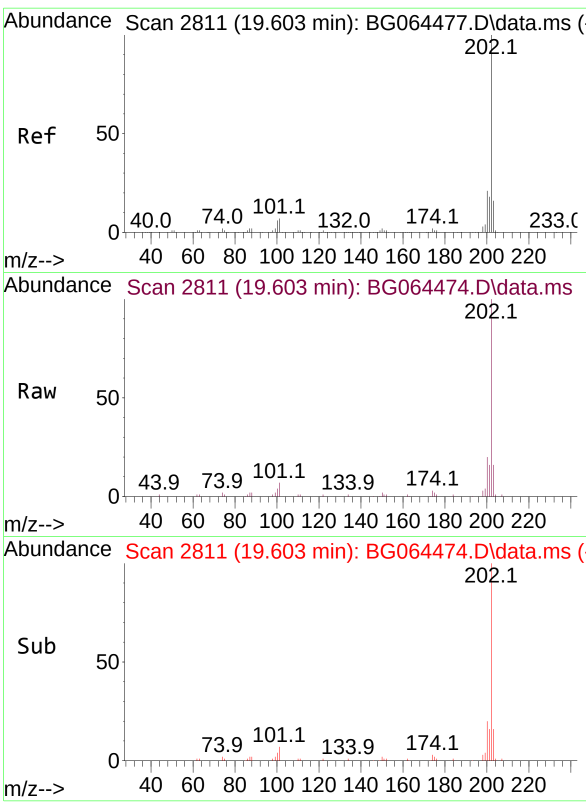



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.407 min Scan# 31
Delta R.T. -0.003 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:240 Resp: 16268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.9 | 4.3 | 6.5 |
| 236 | 26.0 | 20.4 | 30.6 |

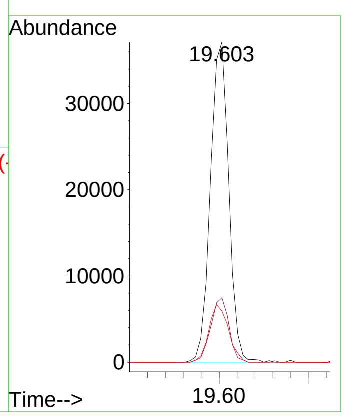



#78
Pyrene
Concen: 4.989 ng
RT: 19.603 min Scan# 2811
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:202 Resp: 52677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.1 | 17.0 | 25.4 |
| 203 | 16.0 | 13.0 | 19.4 |



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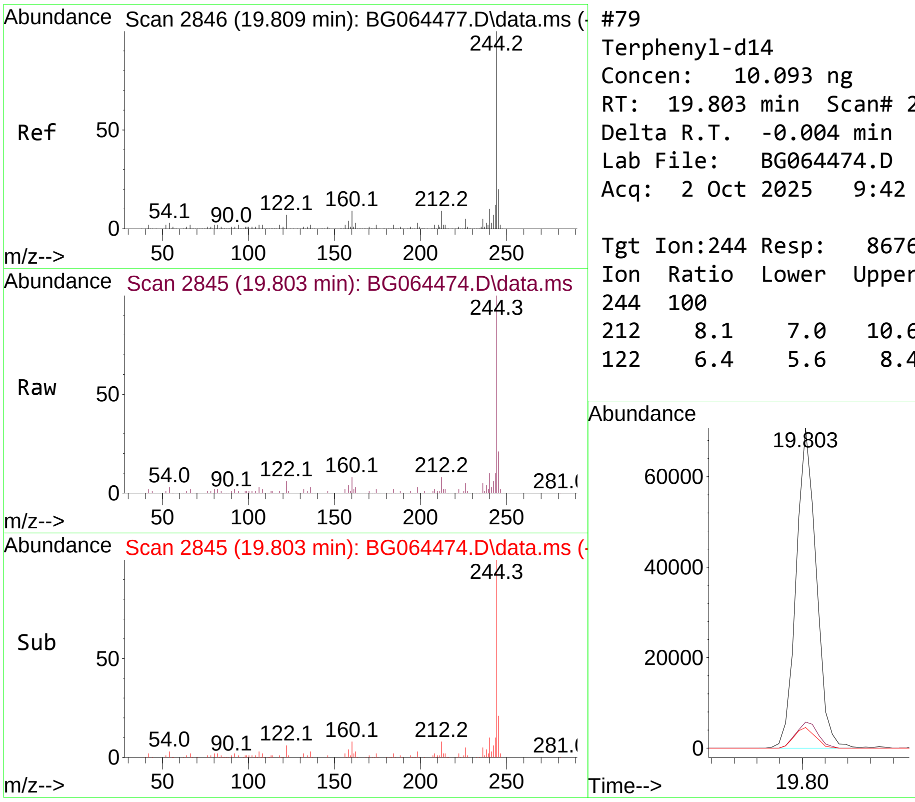


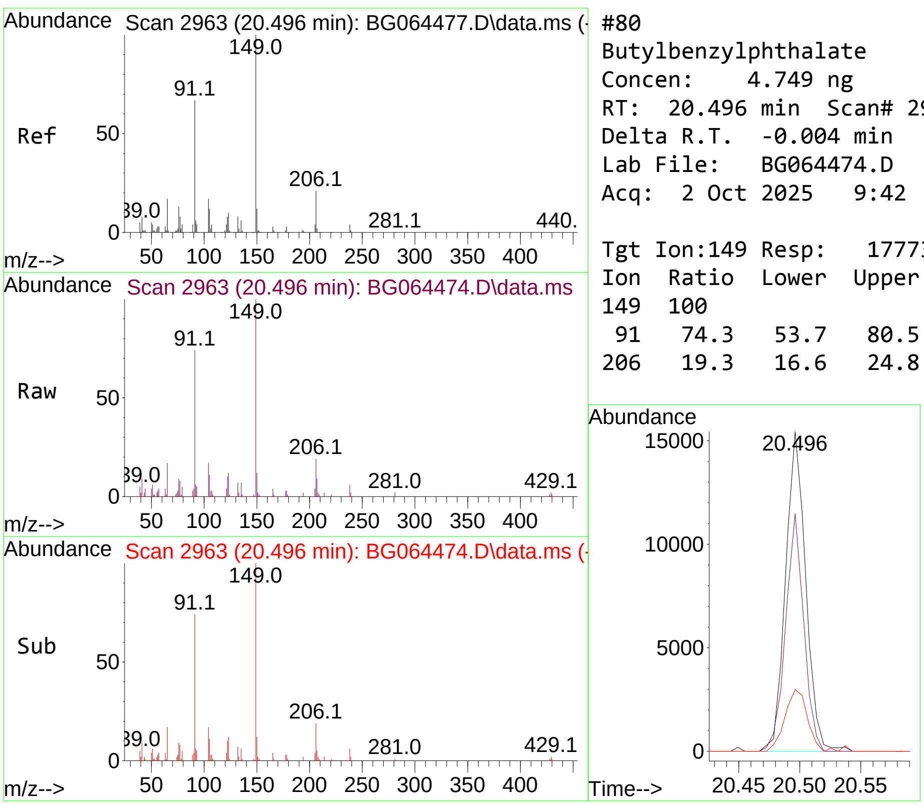

#79
Terphenyl-d14
Concen: 10.093 ng
RT: 19.803 min Scan# 28
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:244 Resp: 86764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.1 | 7.0 | 10.6 |
| 122 | 6.4 | 5.6 | 8.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#80
Butylbenzylphthalate
Concen: 4.749 ng
RT: 20.496 min Scan# 2963
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:149 Resp: 17773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 74.3 | 53.7 | 80.5 |
| 206 | 19.3 | 16.6 | 24.8 |

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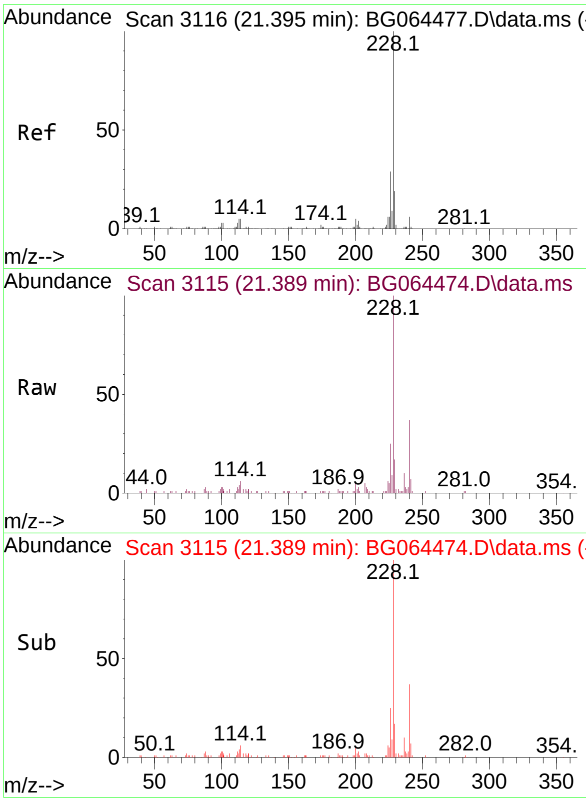


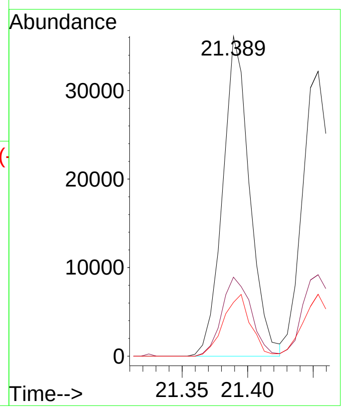

#81
Benzo(a)anthracene
Concen: 5.012 ng
RT: 21.389 min Scan# 31
Delta R.T. -0.004 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

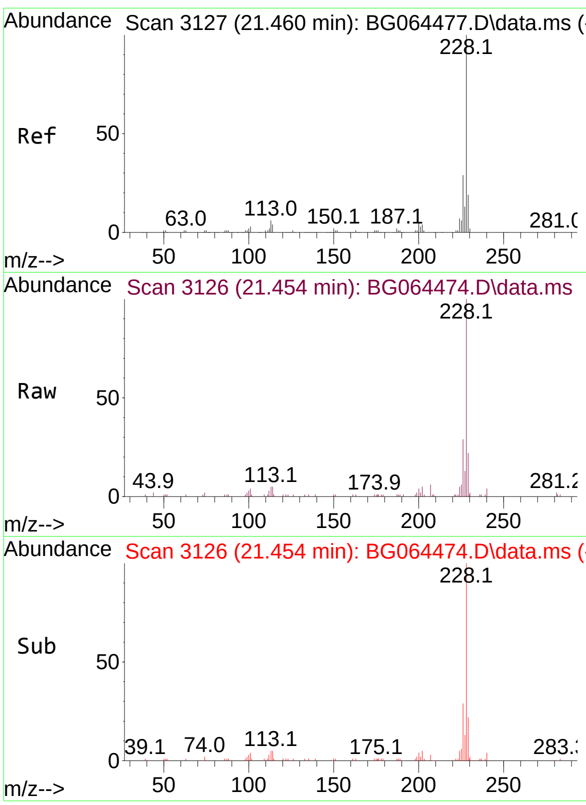
Tgt Ion:228 Resp: 5206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 24.7 | 22.8 | 34.2 |
| 229 | 16.8 | 15.2 | 22.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

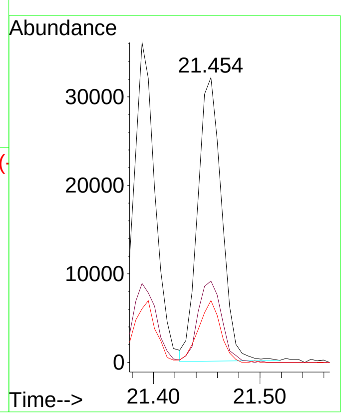



#83
Chrysene
Concen: 5.060 ng
RT: 21.454 min Scan# 3126
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:228 Resp: 49843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.6 | 22.8 | 34.2 |
| 229 | 21.7 | 15.4 | 23.0 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
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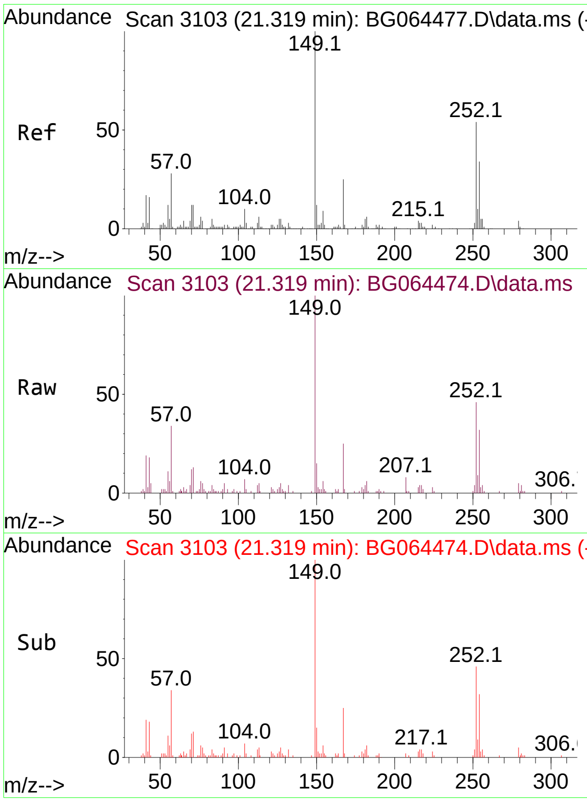
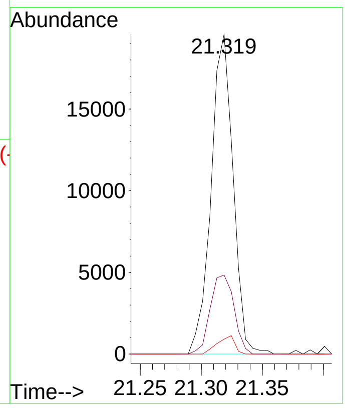
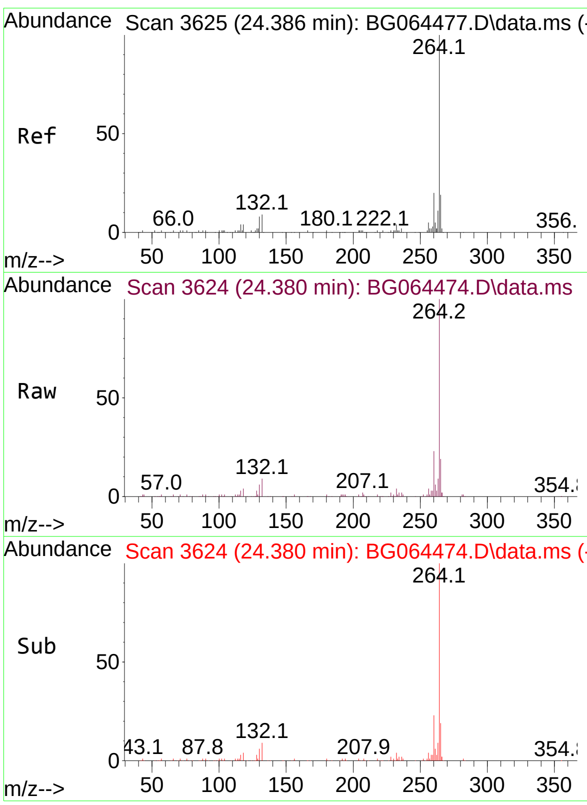
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

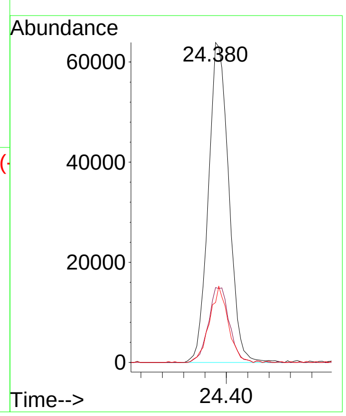


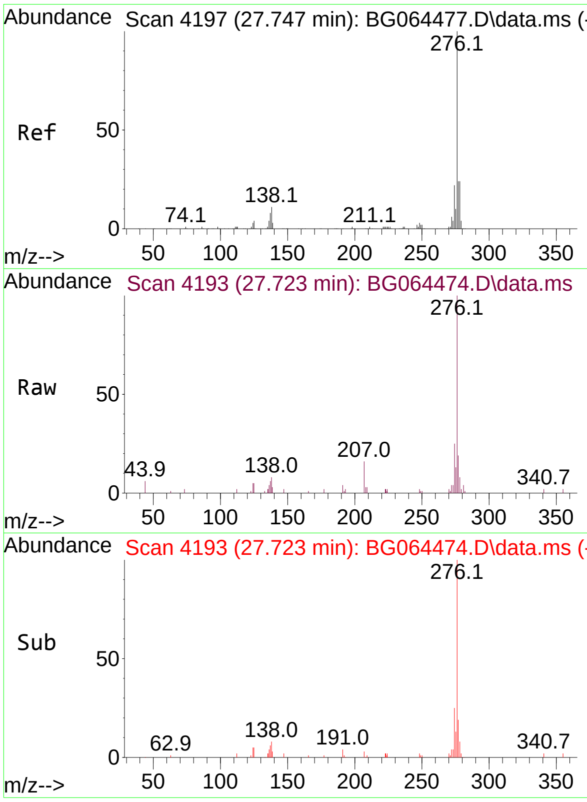

```
#84
Bis(2-ethylhexyl)phthalate
Concen:    4.662 ng
RT:  21.319 min  Scan# 31
Delta R.T.  0.002 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:149 Resp:   24616
Ion  Ratio  Lower  Upper
149  100
167   24.7   19.7   29.5
279    4.7    3.4    5.2
```




```
#86
Perylene-d12
Concen:   20.000 ng
RT:  24.380 min  Scan# 3624
Delta R.T.  -0.009 min
Lab File:   BG064474.D
Acq:  2 Oct 2025   9:42

Tgt Ion:264 Resp:  169977
Ion  Ratio  Lower  Upper
264  100
260   23.4   16.2   24.4
265   18.8   15.0   22.4
```





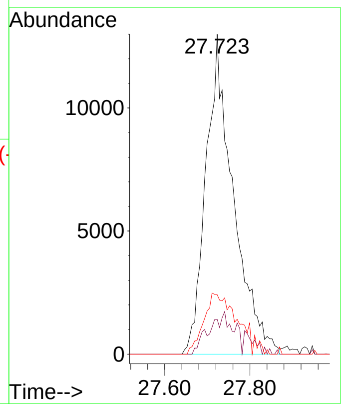

#87
Indeno(1,2,3-cd)pyrene
Concen: 4.912 ng
RT: 27.723 min Scan# 41
Delta R.T. -0.009 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

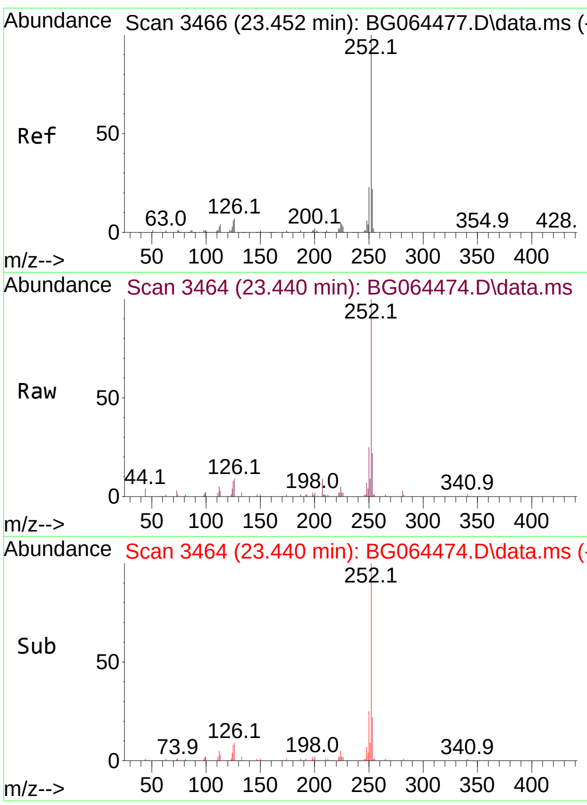
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

Tgt Ion:276 Resp: 5811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 3.5 | 10.8 | 16.2# |
| 277 | 23.6 | 20.3 | 30.5 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

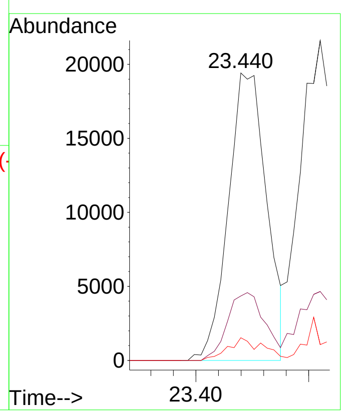


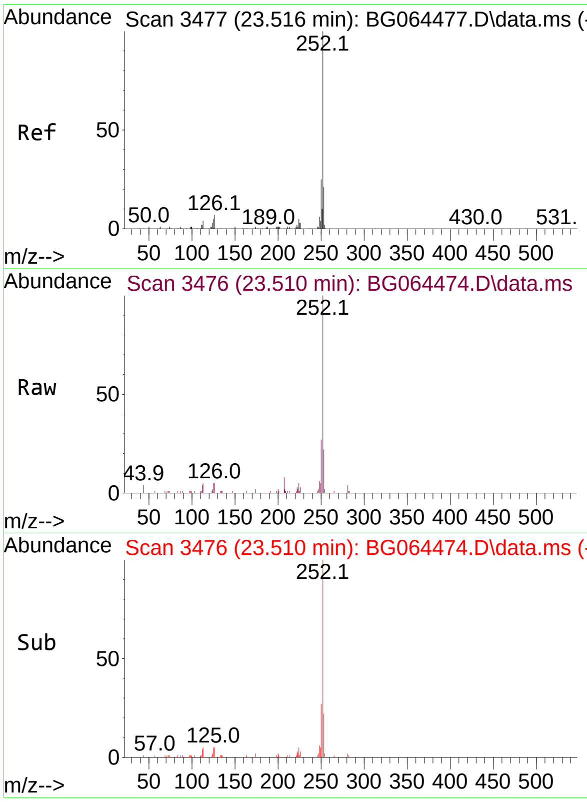

#88
Benzo(b)fluoranthene
Concen: 4.734 ng m
RT: 23.440 min Scan# 3464
Delta R.T. -0.009 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:252 Resp: 45779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 17.5 | 26.3 |
| 125 | 7.9 | 4.5 | 6.7# |



ICAL Form




#89
Benzo(k)fluoranthene
Concen: 4.970 ng
RT: 23.510 min Scan# 34
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

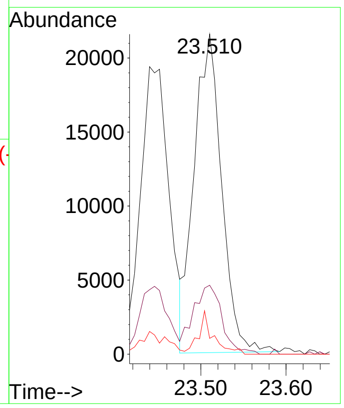
Tgt Ion:252 Resp: 4840

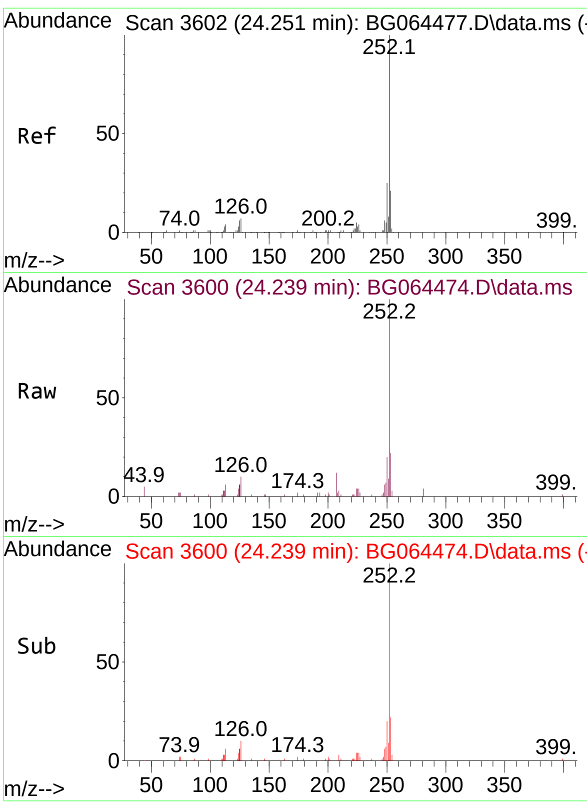
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.4 | 26.2 |
| 125 | 4.9 | 4.0 | 6.0 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

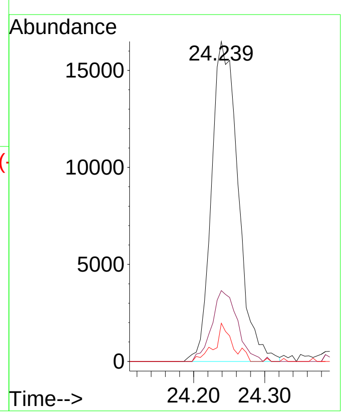


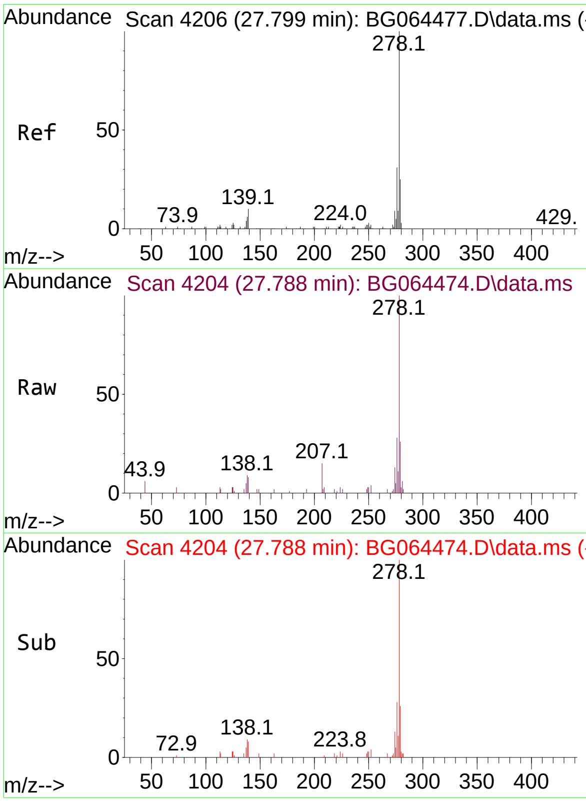




#90
Benzo(a)pyrene
Concen: 4.849 ng
RT: 24.239 min Scan# 3600
Delta R.T. -0.009 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:252 Resp: 43216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.1 | 25.7 |
| 125 | 11.9 | 4.6 | 6.8# |






#91
Dibenzo(a,h)anthracene
Concen: 4.703 ng
RT: 27.788 min Scan# 4
Delta R.T. 0.008 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

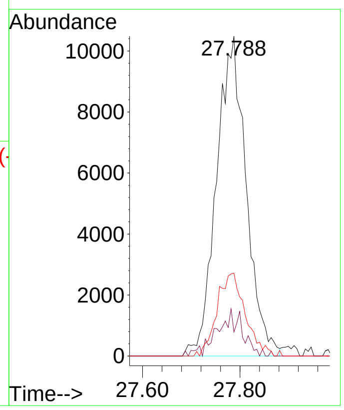
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC005

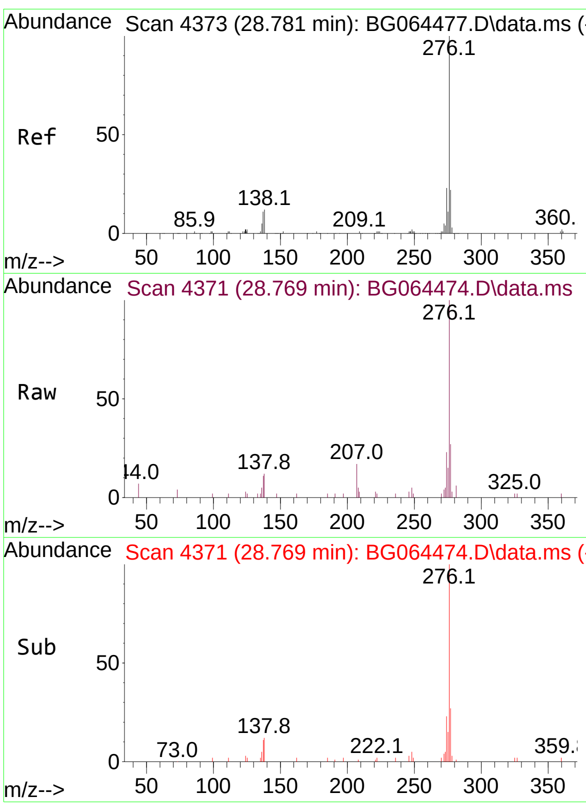
Tgt Ion:278 Resp: 4449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 7.5 | 8.2 | 12.2# |
| 279 | 25.9 | 19.6 | 29.4 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

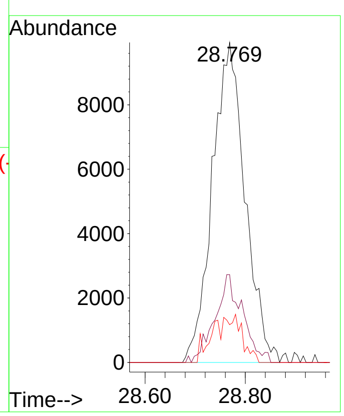



#92
Benzo(g,h,i)perylene
Concen: 4.896 ng
RT: 28.769 min Scan# 4371
Delta R.T. 0.002 min
Lab File: BG064474.D
Acq: 2 Oct 2025 9:42

Tgt Ion:276 Resp: 45019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.4 | 17.8 | 26.6# |
| 138 | 11.8 | 9.4 | 14.0 |



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064476.D
Acq On    :  2 Oct 2025  11:33
Operator  : RC/JU
Sample    : SSTDICC020
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli

Quant Time: Oct 02 16:52:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.829 | 152 | 19357 | 20.000 | ng | # | 0.00 |
| 21) Naphthalene-d8 | 10.608 | 136 | 83888 | 20.000 | ng | # | 0.00 |
| 39) Acenaphthene-d10 | 14.451 | 164 | 65289 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.189 | 188 | 165571 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.413 | 240 | 165934 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.392 | 264 | 174482 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.408 | 112 | 40783 | 38.992 | ng | | 0.00 |
| 7) Phenol-d6 | 6.995 | 99 | 55968 | 39.819 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.975 | 82 | 63357 | 40.610 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.937 | 330 | 47936 | 40.505 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.070 | 172 | 175754 | 39.679 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.803 | 244 | 354811 | 40.467 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.328 | 88 | 8654 | 20.918 | ng | | 88 |
| 3) Pyridine | 3.716 | 79 | 22205 | 19.971 | ng | | 94 |
| 4) n-Nitrosodimethylamine | 3.634 | 42 | 15299 | 18.981 | ng | # | 92 |
| 6) Aniline | 7.147 | 93 | 35362 | 19.945 | ng | | 95 |
| 8) 2-Chlorophenol | 7.388 | 128 | 25393 | 19.771 | ng | | 94 |
| 9) Benzaldehyde | 6.959 | 77 | 20107m | 16.115 | ng | | |
| 10) Phenol | 7.018 | 94 | 29612 | 19.971 | ng | | 96 |
| 11) bis(2-Chloroethyl)ether | 7.247 | 93 | 19393 | 19.313 | ng | | 87 |
| 12) 1,3-Dichlorobenzene | 7.711 | 146 | 27013 | 19.226 | ng | | 92 |
| 13) 1,4-Dichlorobenzene | 7.858 | 146 | 28112 | 19.936 | ng | | 90 |
| 14) 1,2-Dichlorobenzene | 8.170 | 146 | 27767 | 19.980 | ng | | 96 |
| 15) Benzyl Alcohol | 8.058 | 79 | 25165 | 19.441 | ng | | 89 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.340 | 45 | 32082 | 19.821 | ng | | 99 |
| 17) 2-Methylphenol | 8.264 | 107 | 21032 | 19.589 | ng | | 91 |
| 18) Hexachloroethane | 8.904 | 117 | 10342 | 18.581 | ng | | 93 |
| 19) n-Nitroso-di-n-propyla... | 8.622 | 70 | 19471 | 20.713 | ng | | 93 |
| 20) 3+4-Methylphenols | 8.593 | 107 | 29225 | 19.505 | ng | | 94 |
| 22) Acetophenone | 8.640 | 105 | 39987 | 19.687 | ng | # | 91 |
| 24) Nitrobenzene | 9.016 | 77 | 29530 | 18.981 | ng | | 96 |
| 25) Isophorone | 9.539 | 82 | 56538 | 20.004 | ng | | 98 |
| 26) 2-Nitrophenol | 9.727 | 139 | 15208 | 19.641 | ng | | 86 |
| 27) 2,4-Dimethylphenol | 9.786 | 122 | 23391 | 19.778 | ng | | 91 |
| 28) bis(2-Chloroethoxy)met... | 10.021 | 93 | 30279 | 21.017 | ng | # | 92 |
| 29) 2,4-Dichlorophenol | 10.261 | 162 | 26929 | 19.691 | ng | | 97 |
| 30) 1,2,4-Trichlorobenzene | 10.473 | 180 | 30204 | 20.255 | ng | | 99 |
| 31) Naphthalene | 10.661 | 128 | 84975 | 19.671 | ng | | 98 |
| 32) Benzoic acid | 9.909 | 122 | 16621m | 18.305 | ng | | |
| 33) 4-Chloroaniline | 10.773 | 127 | 31287 | 18.874 | ng | | 95 |
| 34) Hexachlorobutadiene | 10.949 | 225 | 25803 | 20.205 | ng | | 92 |
| 35) Caprolactam | 11.525 | 113 | 10044 | 21.453 | ng | # | 83 |
| 36) 4-Chloro-3-methylphenol | 11.895 | 107 | 32921 | 19.795 | ng | # | 89 |
| 37) 2-Methylnaphthalene | 12.271 | 142 | 66302 | 19.995 | ng | | 92 |
| 38) 1-Methylnaphthalene | 12.488 | 142 | 65599m | 19.840 | ng | | |
| 40) 1,2,4,5-Tetrachloroben... | 12.641 | 216 | 40584 | 19.252 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 12.623 | 237 | 19309 | 17.510 | ng | | 90 |
| 43) 2,4,6-Trichlorophenol | 12.876 | 196 | 25830 | 19.167 | ng | | 95 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064476.D
Acq On : 2 Oct 2025 11:33
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli

Quant Time: Oct 02 16:52:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.958 | 196 | 28101 | 18.678 ng | | 89 |
| 46) 1,1'-Biphenyl | 13.281 | 154 | 92485 | 19.695 ng | | 99 |
| 47) 2-Chloronaphthalene | 13.323 | 162 | 68272 | 19.473 ng | | 98 |
| 48) 2-Nitroaniline | 13.522 | 65 | 24212 | 20.234 ng | | 91 |
| 49) Acenaphthylene | 14.169 | 152 | 102668 | 19.727 ng | | 98 |
| 50) Dimethylphthalate | 13.904 | 163 | 103311 | 20.204 ng | | 96 |
| 51) 2,6-Dinitrotoluene | 14.022 | 165 | 21899 | 20.559 ng | | 93 |
| 52) Acenaphthene | 14.515 | 154 | 70884 | 19.604 ng | | 100 |
| 53) 3-Nitroaniline | 14.351 | 138 | 19604 | 19.956 ng | | 94 |
| 54) 2,4-Dinitrophenol | 14.562 | 184 | 17644 | 22.843 ng | # | 77 |
| 55) Dibenzofuran | 14.850 | 168 | 117496 | 19.680 ng | | 100 |
| 56) 4-Nitrophenol | 14.668 | 139 | 14837 | 19.183 ng | | 90 |
| 57) 2,4-Dinitrotoluene | 14.809 | 165 | 31862 | 19.567 ng | | 97 |
| 58) Fluorene | 15.496 | 166 | 100209 | 20.190 ng | # | 97 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.079 | 232 | 31023 | 20.205 ng | # | 97 |
| 60) Diethylphthalate | 15.273 | 149 | 109604 | 19.981 ng | | 97 |
| 61) 4-Chlorophenyl-phenyle... | 15.491 | 204 | 54751 | 20.205 ng | | 92 |
| 62) 4-Nitroaniline | 15.508 | 138 | 21595 | 21.091 ng | # | 88 |
| 63) Azobenzene | 15.784 | 77 | 86539 | 20.370 ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 15.579 | 198 | 22989 | 19.942 ng | | 92 |
| 66) n-Nitrosodiphenylamine | 15.708 | 169 | 88367 | 19.986 ng | | 94 |
| 67) 4-Bromophenyl-phenylether | 16.384 | 248 | 37623 | 19.310 ng | | 94 |
| 68) Hexachlorobenzene | 16.501 | 284 | 45002 | 20.185 ng | | 99 |
| 69) Atrazine | 16.654 | 200 | 40855 | 20.769 ng | | 98 |
| 70) Pentachlorophenol | 16.842 | 266 | 24237 | 18.593 ng | | 93 |
| 71) Phenanthrene | 17.230 | 178 | 174598 | 20.165 ng | | 98 |
| 72) Anthracene | 17.324 | 178 | 172893 | 19.904 ng | | 97 |
| 73) Carbazole | 17.588 | 167 | 149710 | 19.939 ng | | 97 |
| 74) Di-n-butylphthalate | 18.158 | 149 | 182903 | 19.955 ng | | 99 |
| 75) Fluoranthene | 19.239 | 202 | 210637 | 20.363 ng | | 98 |
| 77) Benzidine | 19.421 | 184 | 70399 | 17.050 ng | | 99 |
| 78) Pyrene | 19.603 | 202 | 218448 | 20.286 ng | | 97 |
| 80) Butylbenzylphthalate | 20.496 | 149 | 77010 | 20.174 ng | | 96 |
| 81) Benzo(a)anthracene | 21.395 | 228 | 213165 | 20.119 ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 21.319 | 252 | 71567 | 19.958 ng | | 99 |
| 83) Chrysene | 21.454 | 228 | 198263 | 19.732 ng | | 96 |
| 84) Bis(2-ethylhexyl)phtha... | 21.319 | 149 | 106271 | 19.731 ng | | 98 |
| 85) Di-n-octyl phthalate | 22.441 | 149 | 174229 | 19.247 ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.735 | 276 | 240423 | 19.796 ng | | 99 |
| 88) Benzo(b)fluoranthene | 23.446 | 252 | 204393 | 20.591 ng | | 98 |
| 89) Benzo(k)fluoranthene | 23.511 | 252 | 199853 | 19.991 ng | | 98 |
| 90) Benzo(a)pyrene | 24.245 | 252 | 184712 | 20.191 ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 27.782 | 278 | 195555 | 20.134 ng | # | 96 |
| 92) Benzo(g,h,i)perylene | 28.769 | 276 | 189789 | 20.108 ng | # | 95 |

10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report    (QT Reviewed)

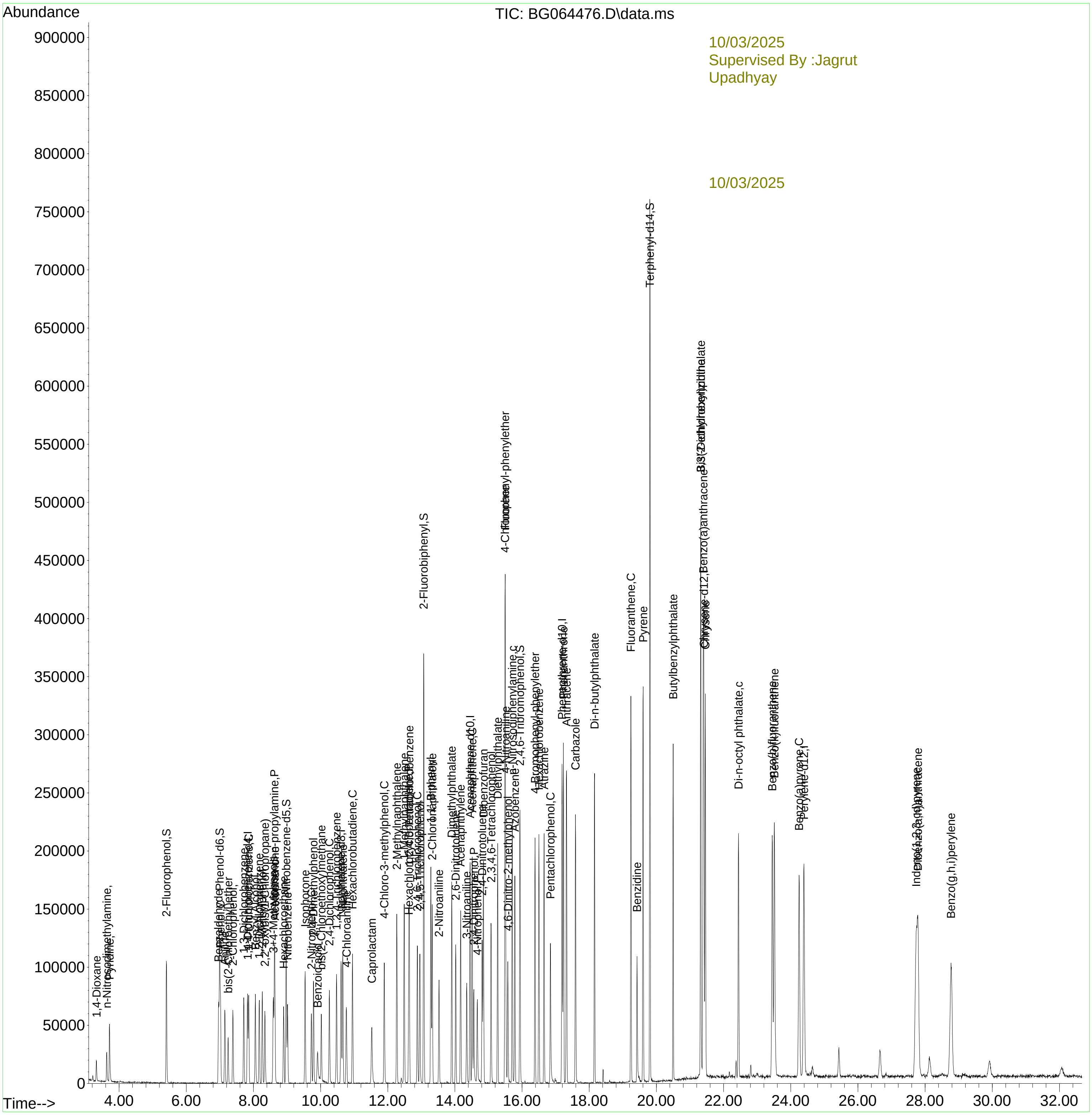
ICAL Form

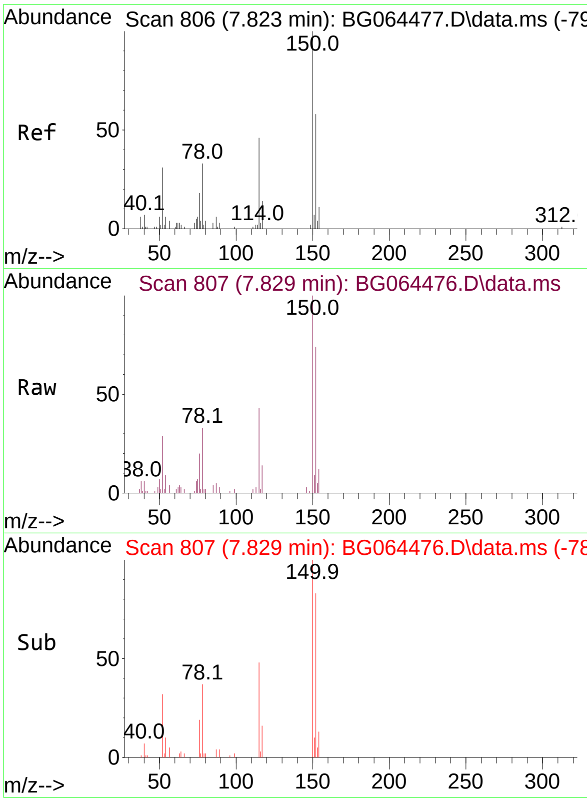
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064476.D
Acq On    :  2 Oct 2025  11:33
Operator  : RC/JU
Sample    : SSTDICC020
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Oct 02 16:52:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli






#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:   7.829 min   Scan# 8
Delta R.T.   0.009 min
Lab File:   BG064476.D
Acq:  2 Oct 2025   11:33

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

Tgt Ion:152 Resp:   1935

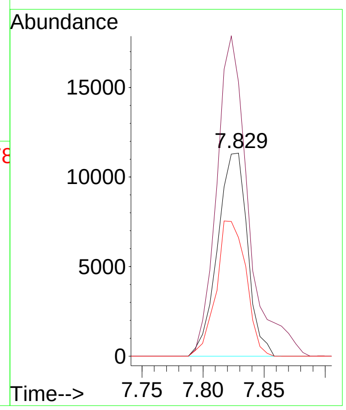
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 134.9 | 138.6 | 207.8# |
| 115 | 58.4 | 63.4 | 95.2# |

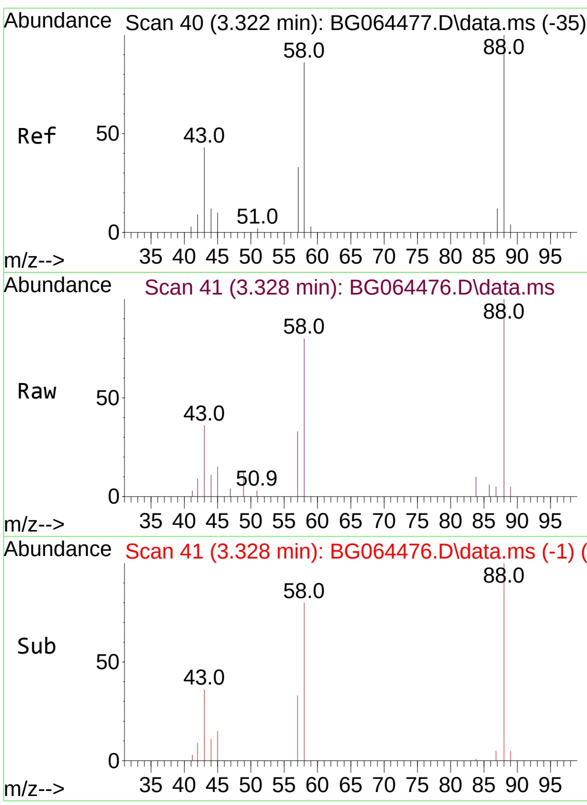
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

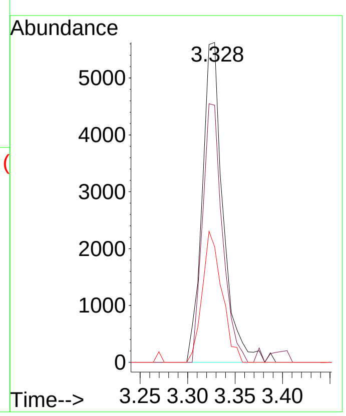


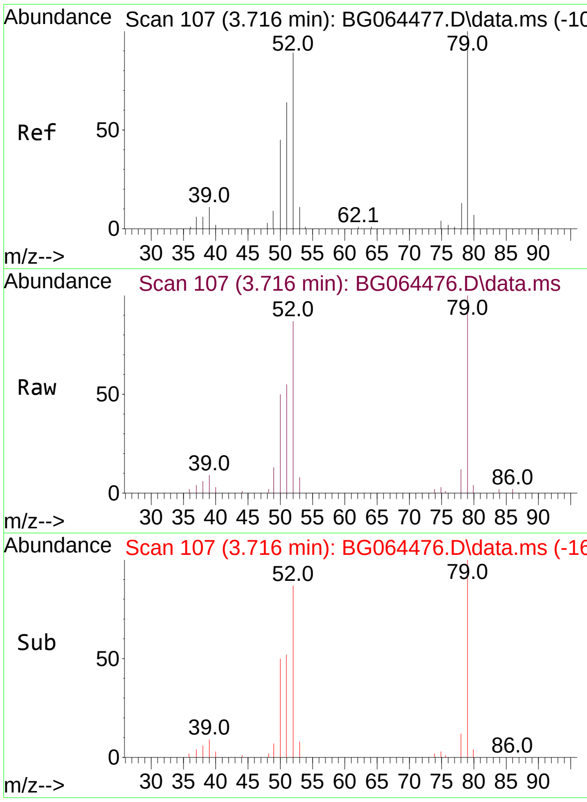

#2
1,4-Dioxane
Concen:   20.918 ng
RT:   3.328 min   Scan# 41
Delta R.T.   0.009 min
Lab File:   BG064476.D
Acq:  2 Oct 2025   11:33

Tgt Ion: 88 Resp:   8654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.5 | 69.8 | 104.6 |
| 43 | 38.5 | 37.4 | 56.0 |



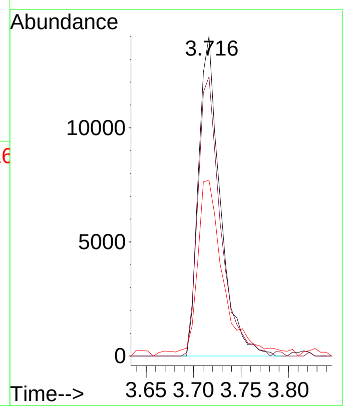
ICAL Form



#3
Pyridine
Concen: 19.971 ng
RT: 3.716 min Scan# 10
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 79 Resp: 22205

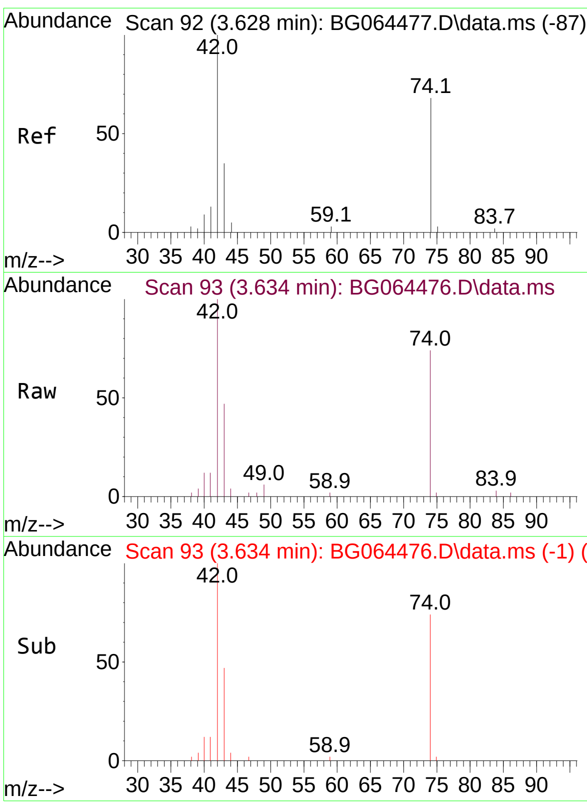
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 87.3 | 71.0 | 106.4 |
| 51 | 54.9 | 51.0 | 76.6 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

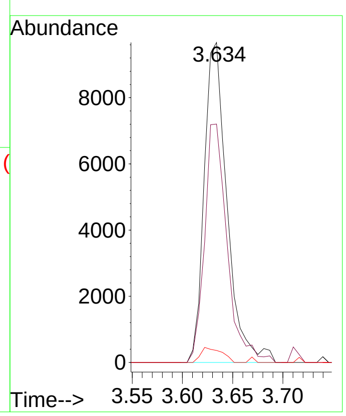
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025



#4
n-Nitrosodimethylamine
Concen: 18.981 ng
RT: 3.634 min Scan# 93
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 42 Resp: 15299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 74.5 | 54.2 | 81.4 |
| 44 | 3.7 | 4.2 | 6.2# |



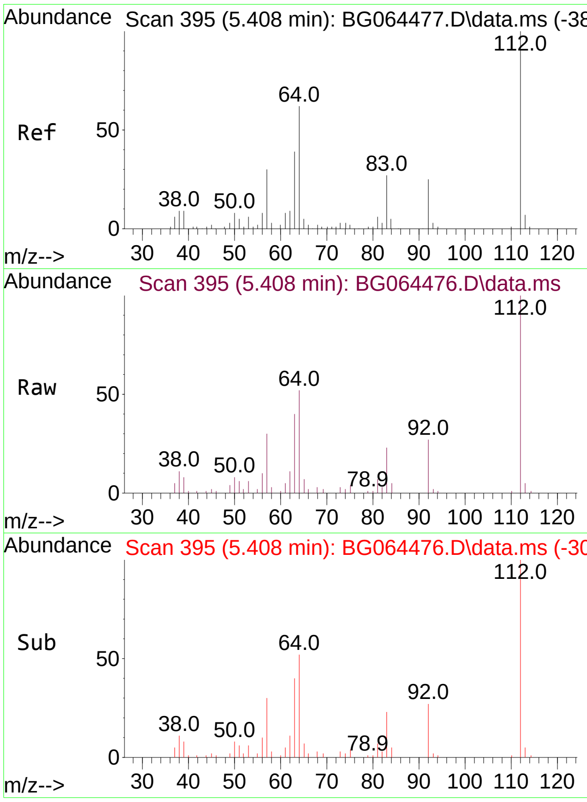
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025
Supervised By :Jagrut Upadhyay

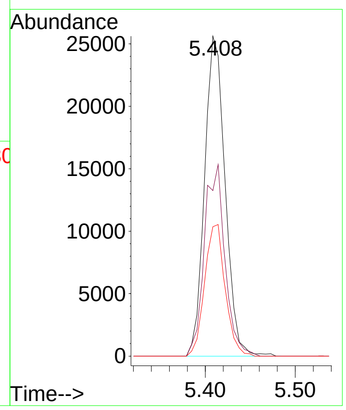
10/03/2025

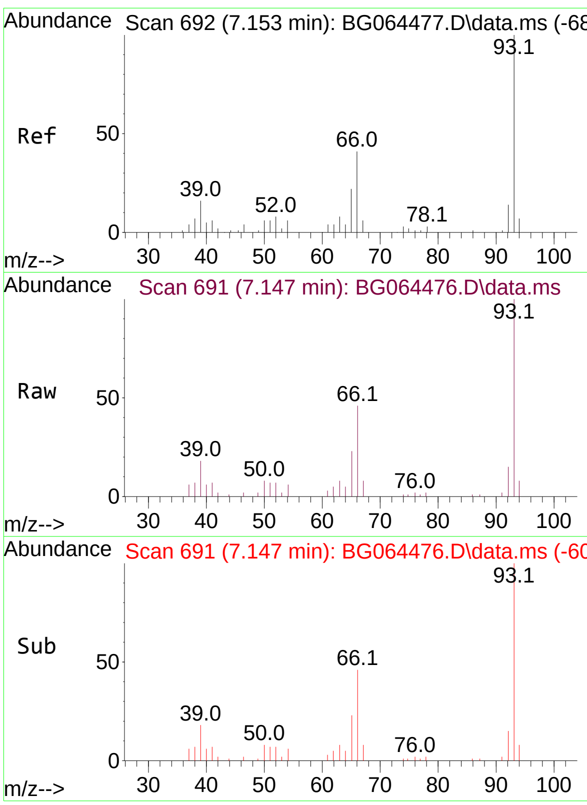



#5
2-Fluorophenol
Concen: 38.992 ng
RT: 5.408 min Scan# 39
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:112 Resp: 40783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.7 | 49.8 | 74.8 |
| 63 | 40.4 | 31.3 | 46.9 |

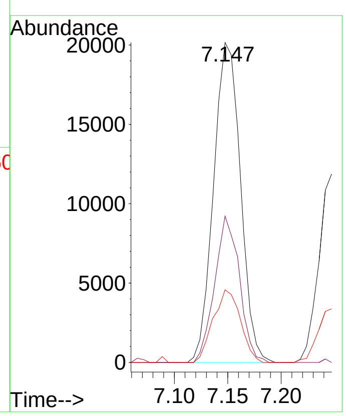


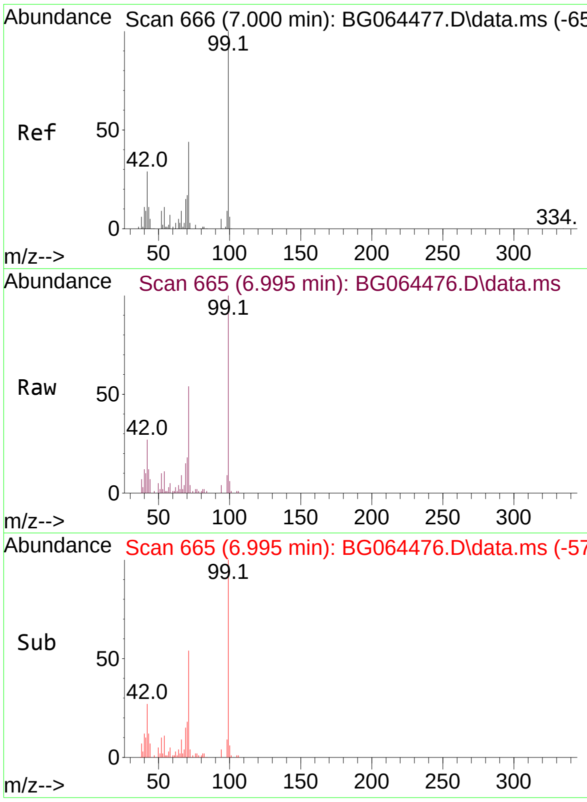




#6
Aniline
Concen: 19.945 ng
RT: 7.147 min Scan# 691
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 93 Resp: 35362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 45.7 | 33.0 | 49.4 |
| 65 | 22.7 | 17.5 | 26.3 |

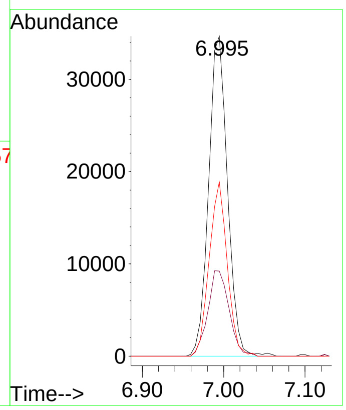





#7
Phenol-d6
Concen:   39.819 ng
RT:   6.995 min   Scan# 66
Delta R.T.   0.009 min
Lab File:   BG064476.D
Acq:  2 Oct 2025   11:33

Tgt Ion: 99 Resp:   55968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 26.6 | 22.9 | 34.3 |
| 71 | 54.5 | 35.4 | 53.2# |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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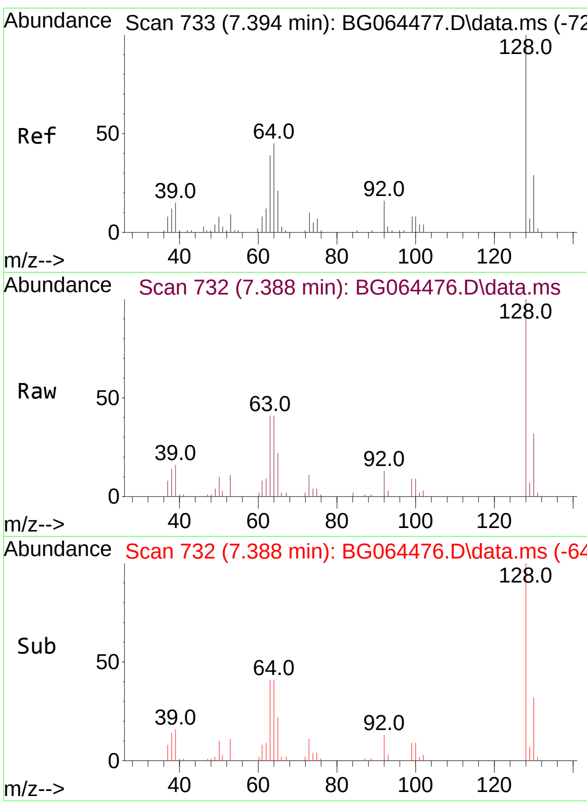
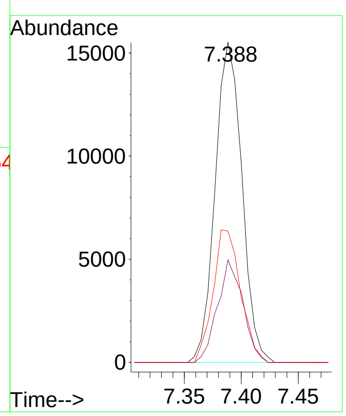
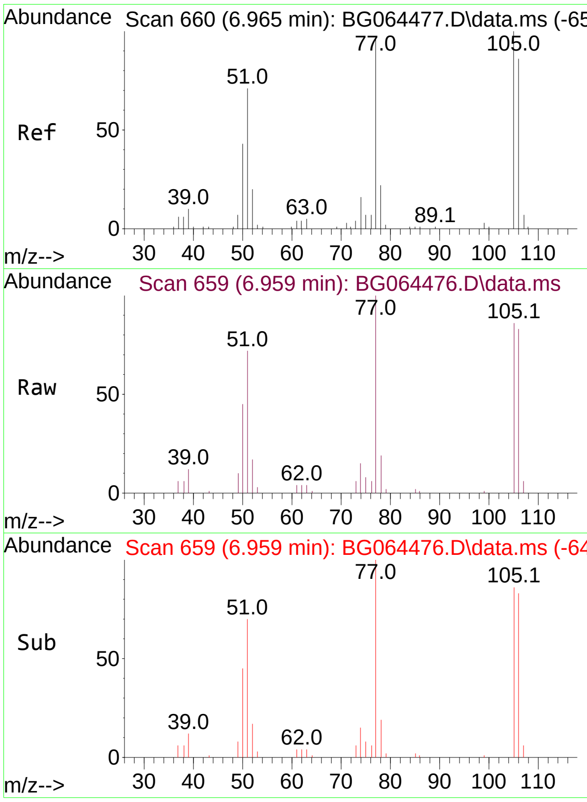



#8
2-Chlorophenol
Concen:   19.771 ng
RT:   7.388 min   Scan# 732
Delta R.T.   0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025   11:33

Tgt Ion:128 Resp:   25393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.0 | 9.2 | 49.2 |
| 64 | 41.0 | 25.5 | 65.5 |

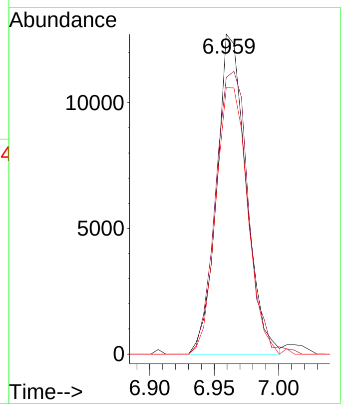





#9
Benzaldehyde
Concen: 16.115 ng m
RT: 6.959 min Scan# 65
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 77 Resp: 2010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 86.5 | 83.7 | 123.7 |
| 106 | 83.3 | 69.4 | 109.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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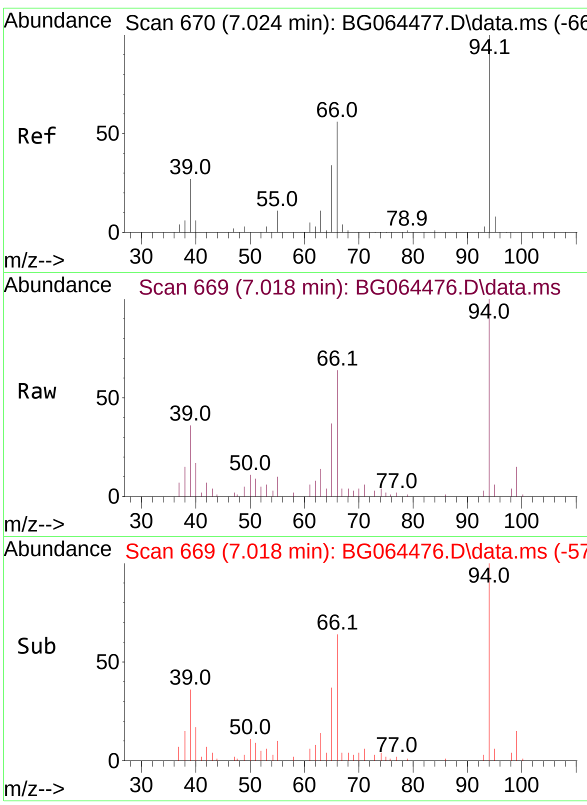
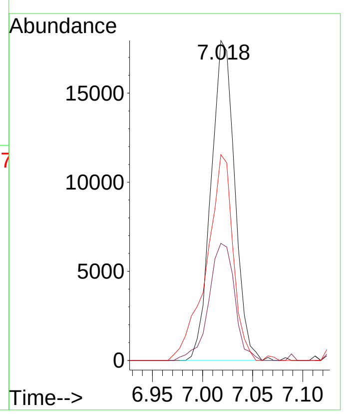



#10
Phenol
Concen: 19.971 ng
RT: 7.018 min Scan# 669
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 94 Resp: 29612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 36.6 | 14.8 | 54.8 |
| 66 | 64.3 | 41.4 | 81.4 |



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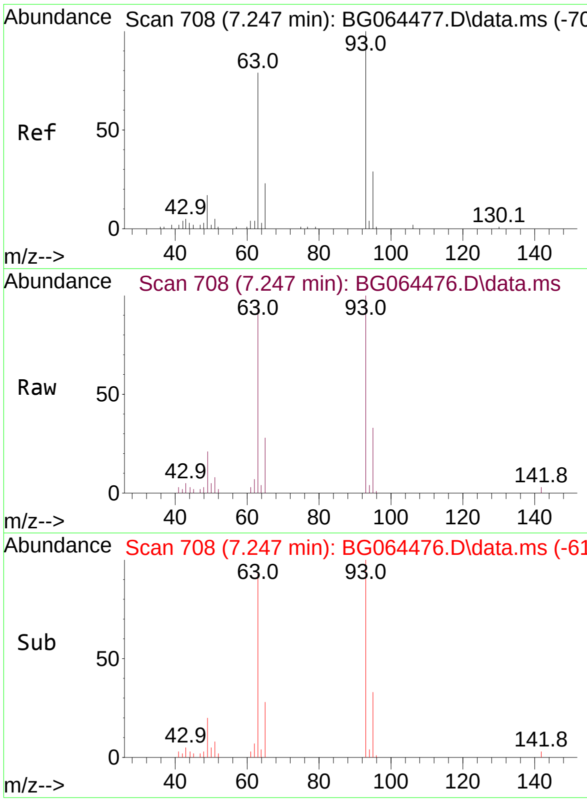
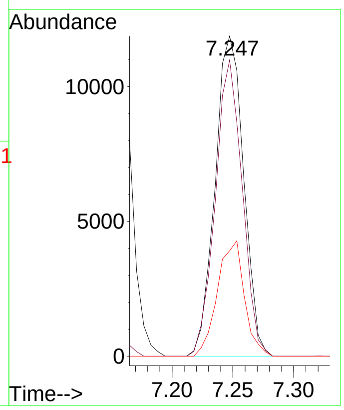



#11
bis(2-Chloroethyl)ether
Concen: 19.313 ng
RT: 7.247 min Scan# 70
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 93 Resp: 1939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 92.5 | 59.5 | 99.5 |
| 95 | 32.9 | 8.8 | 48.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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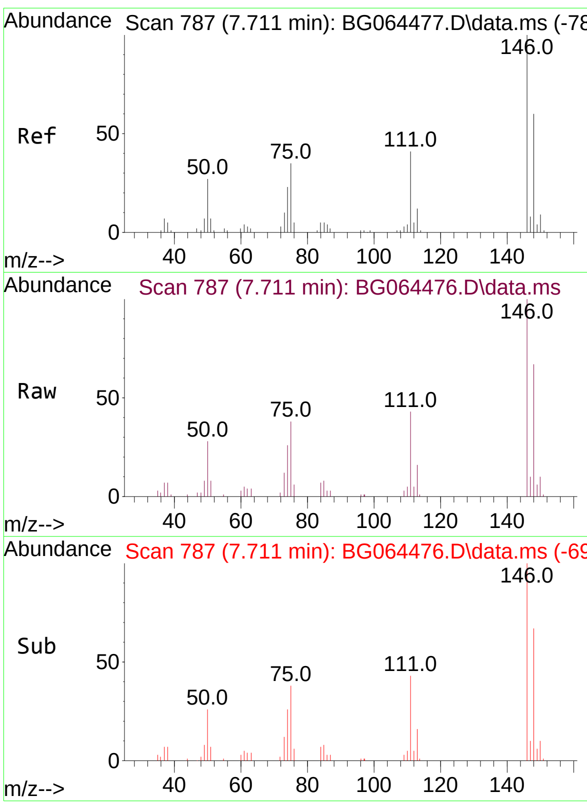
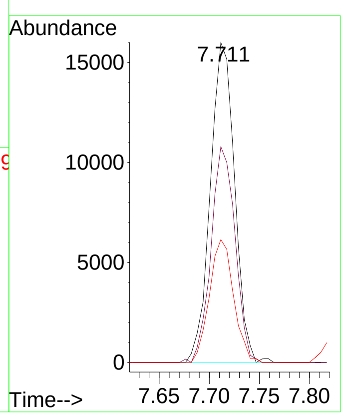



#12
1,3-Dichlorobenzene
Concen: 19.226 ng
RT: 7.711 min Scan# 787
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:146 Resp: 27013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 67.4 | 48.4 | 72.6 |
| 75 | 38.4 | 28.3 | 42.5 |



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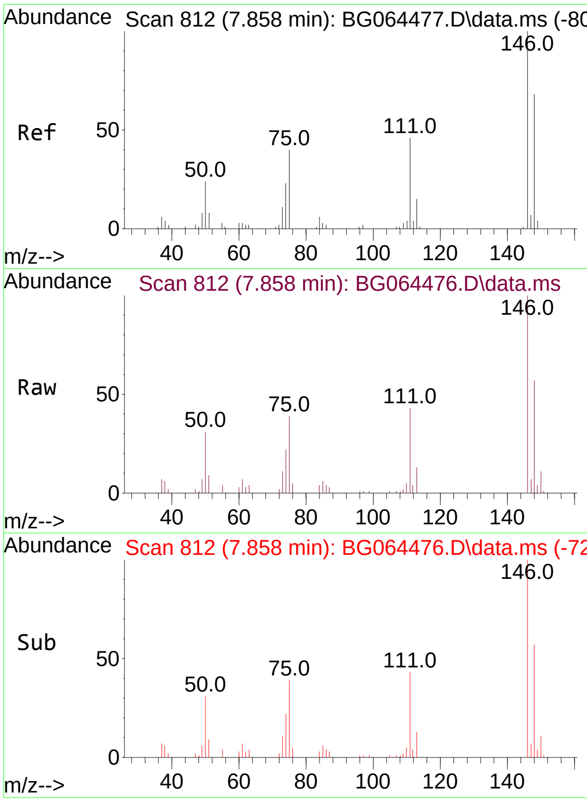
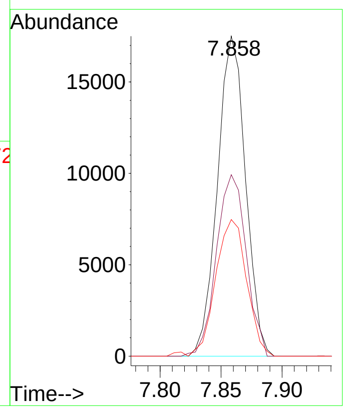



#13
1,4-Dichlorobenzene
Concen: 19.936 ng
RT: 7.858 min Scan# 81
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:146 Resp: 2811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 56.7 | 54.4 | 81.6 |
| 111 | 42.7 | 36.5 | 54.7 |




**Instrument :**
BNA_G
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SSTDICC020

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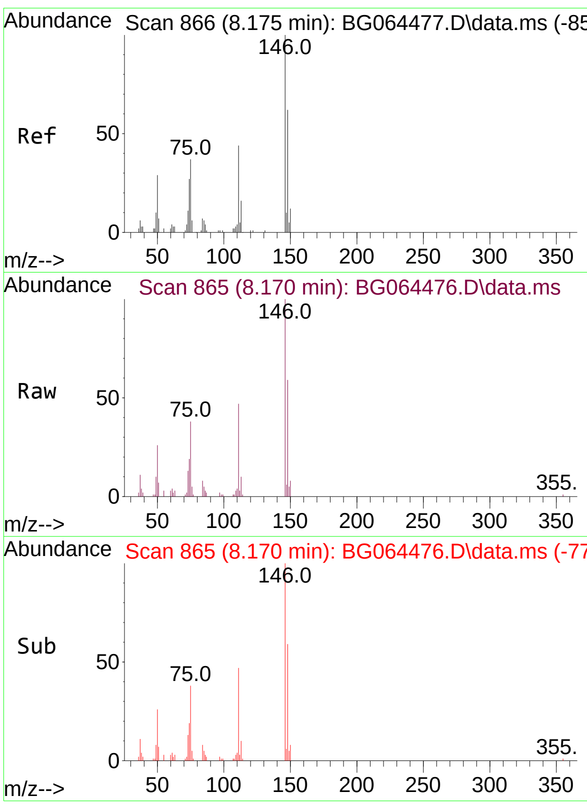
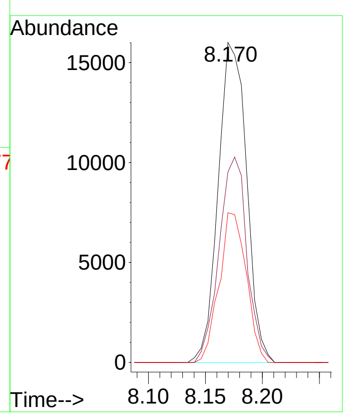
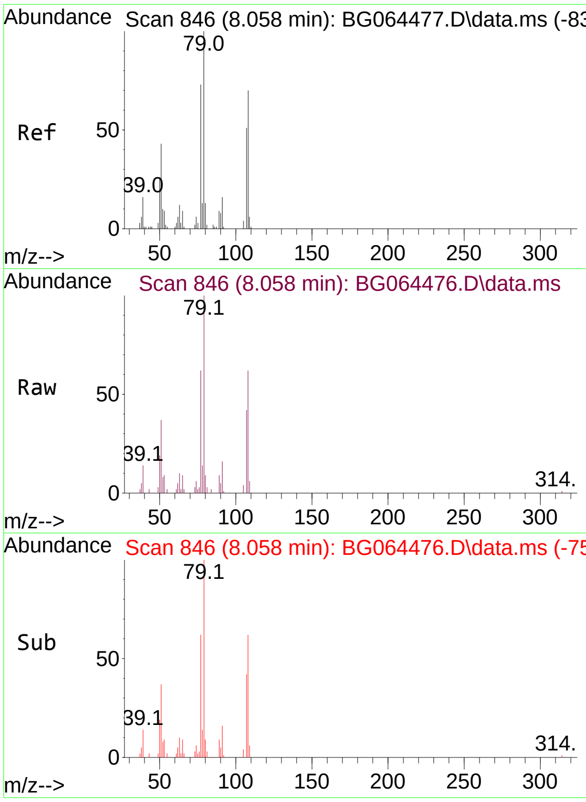



#14
1,2-Dichlorobenzene
Concen: 19.980 ng
RT: 8.170 min Scan# 865
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:146 Resp: 27767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 59.5 | 50.0 | 75.0 |
| 111 | 46.8 | 35.0 | 52.4 |

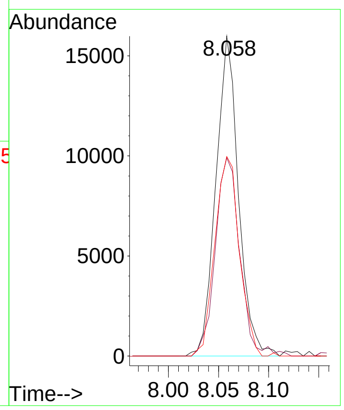





#15
Benzyl Alcohol
Concen: 19.441 ng
RT: 8.058 min Scan# 84
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 79 Resp: 25165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 62.0 | 56.4 | 84.6 |
| 77 | 62.4 | 58.3 | 87.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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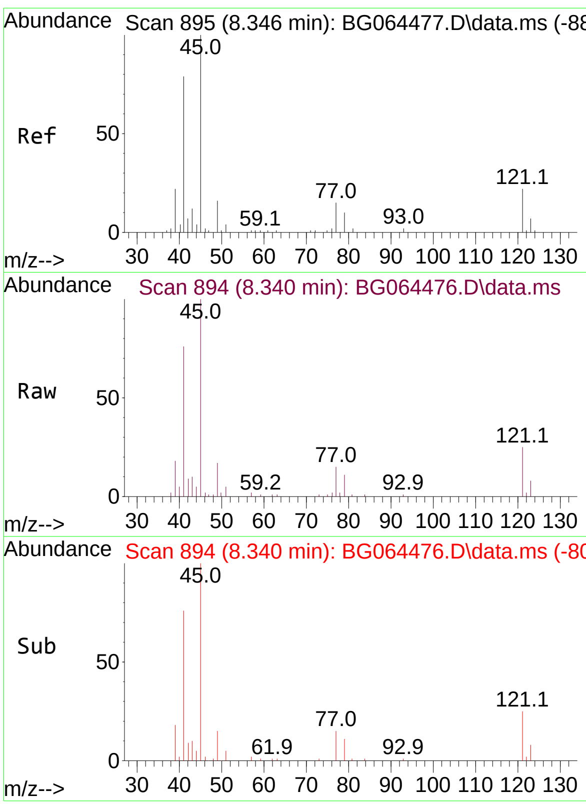
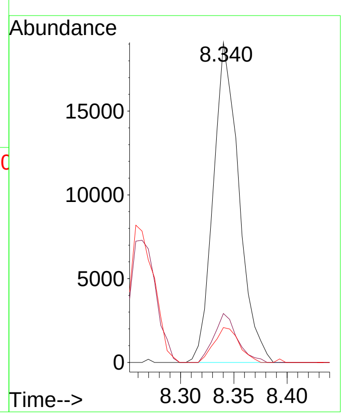
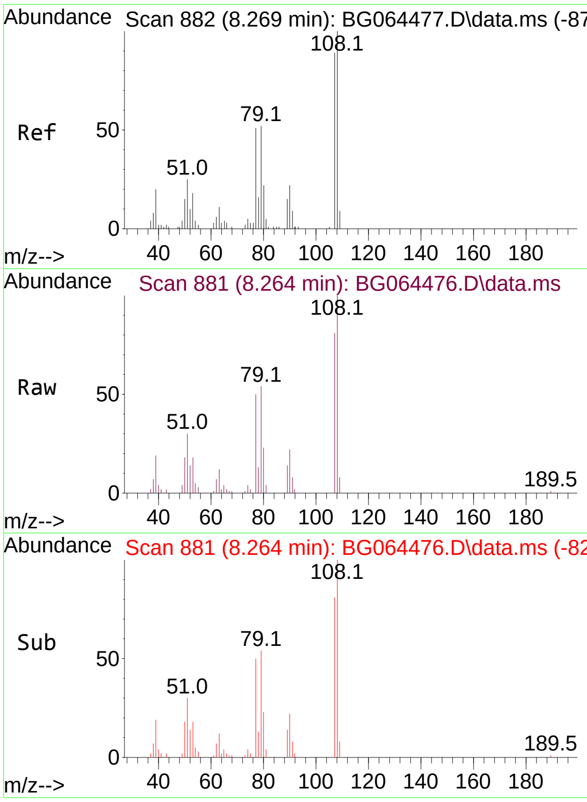



#16
2,2'-oxybis(1-Chloropropane)
Concen: 19.821 ng
RT: 8.340 min Scan# 894
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 45 Resp: 32082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 15.3 | 0.0 | 35.6 |
| 79 | 10.9 | 0.0 | 30.7 |

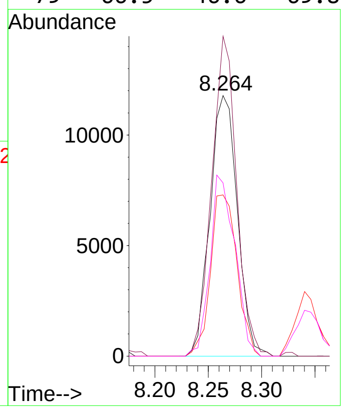





#17
2-Methylphenol
Concen: 19.589 ng
RT: 8.264 min Scan# 88
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:107 Resp: 21032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 122.8 | 90.3 | 135.5 |
| 77 | 61.9 | 46.0 | 69.0 |
| 79 | 66.5 | 46.6 | 69.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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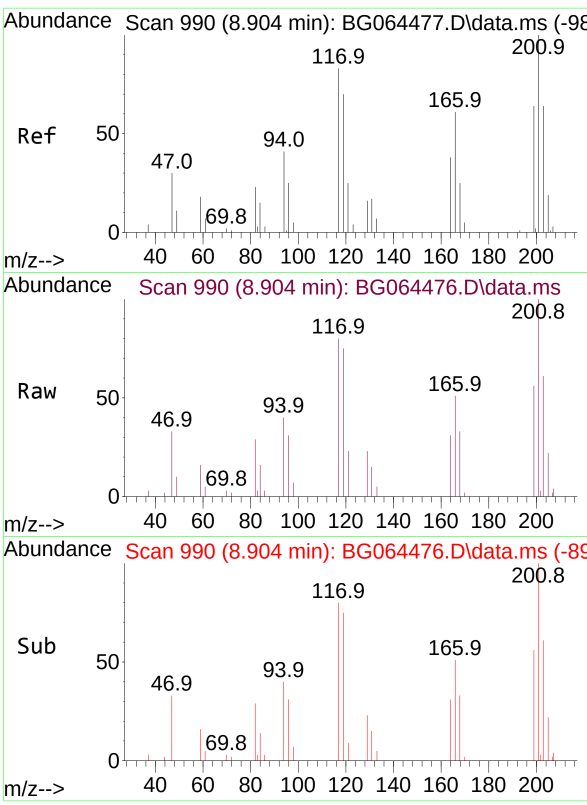
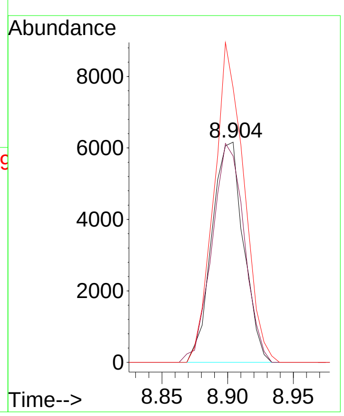
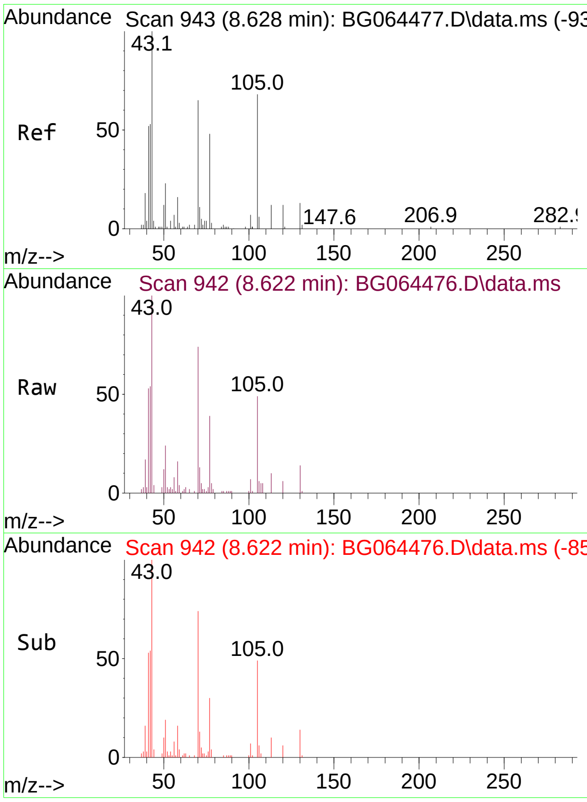



#18
Hexachloroethane
Concen: 18.581 ng
RT: 8.904 min Scan# 990
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:117 Resp: 10342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.7 | 67.4 | 101.0 |
| 201 | 124.6 | 95.9 | 143.9 |



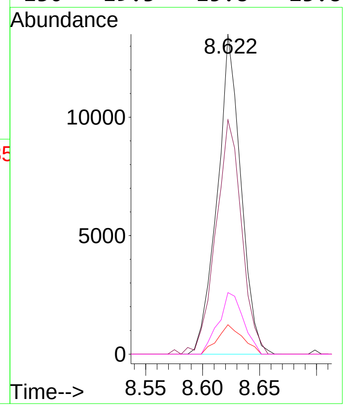


#19
n-Nitroso-di-n-propylamine
Concen: 20.713 ng
RT: 8.622 min Scan# 94
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

Tgt Ion: 70 Resp: 19471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 73.2 | 64.9 | 97.3 |
| 101 | 9.2 | 8.7 | 13.1 |
| 130 | 19.3 | 15.8 | 23.8 |



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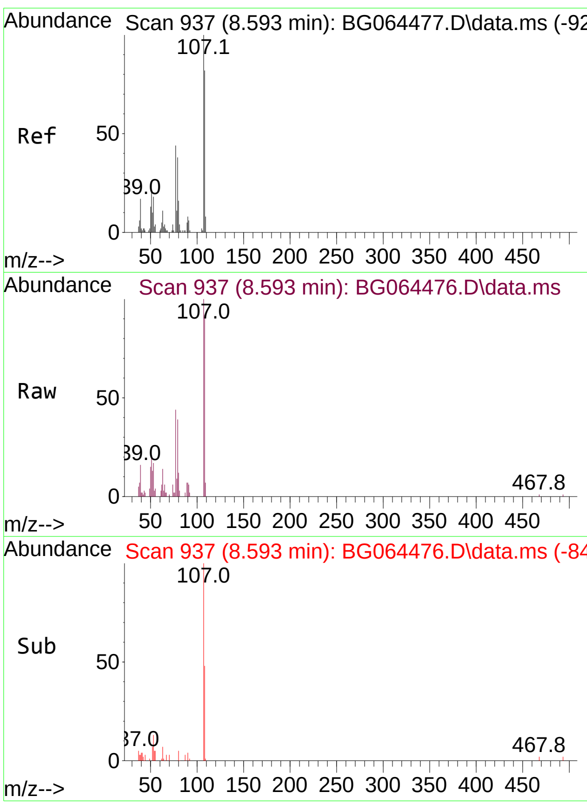
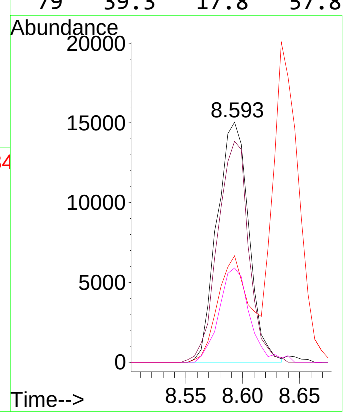
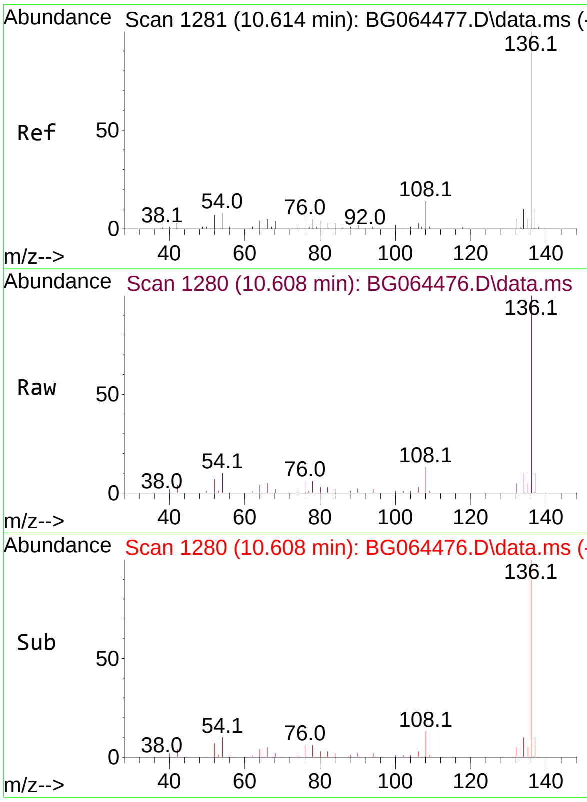


#20
3+4-Methylphenols
Concen: 19.505 ng
RT: 8.593 min Scan# 937
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:107 Resp: 29225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 92.0 | 62.1 | 102.1 |
| 77 | 44.3 | 23.5 | 63.5 |
| 79 | 39.3 | 17.8 | 57.8 |

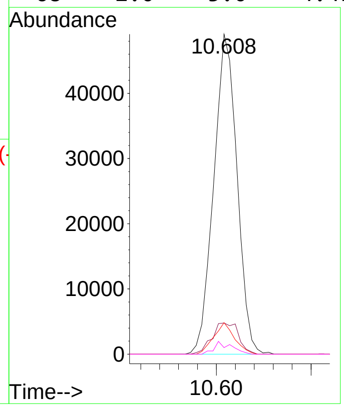





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.608 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:136 Resp: 83888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 9.7 | 8.3 | 12.5 |
| 54 | 9.8 | 6.2 | 9.4# |
| 68 | 2.0 | 3.0 | 4.4# |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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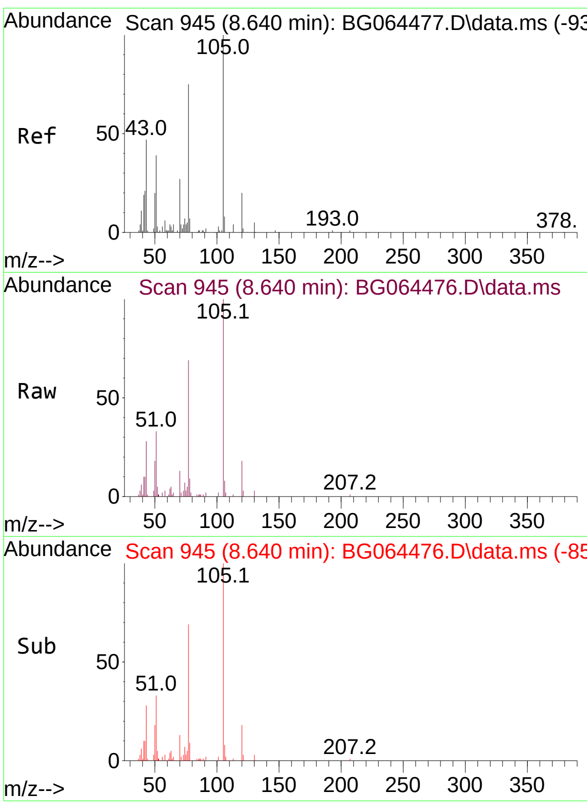
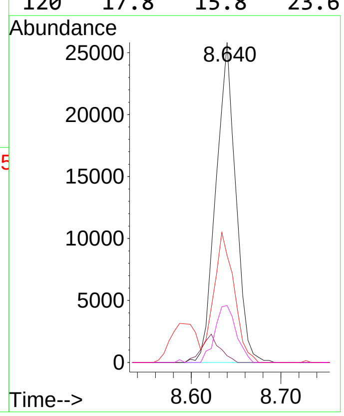



#22
Acetophenone
Concen: 19.687 ng
RT: 8.640 min Scan# 945
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:105 Resp: 39987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 2.1 | 2.8 | 4.2# |
| 51 | 33.4 | 33.0 | 49.4 |
| 120 | 17.8 | 15.8 | 23.6 |



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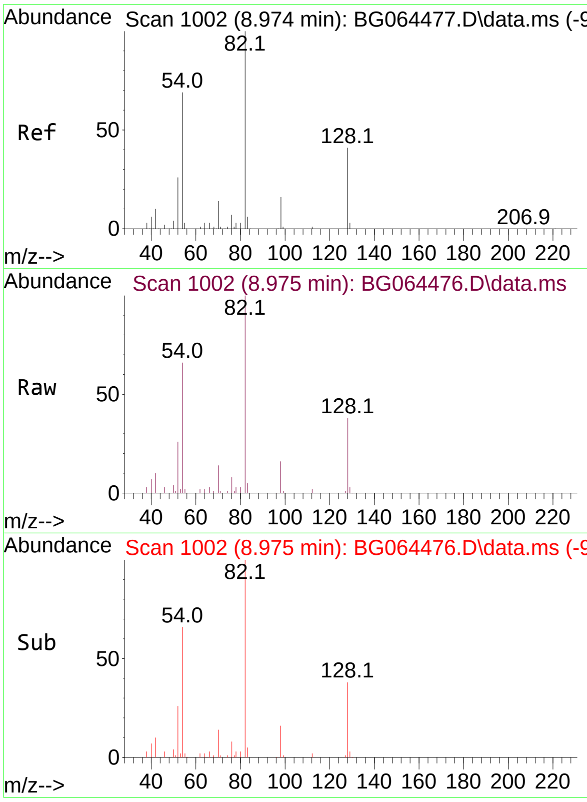


#23
Nitrobenzene-d5
Concen: 40.610 ng
RT: 8.975 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 82 Resp: 6335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.4 | 33.1 | 49.7 |
| 54 | 66.0 | 55.4 | 83.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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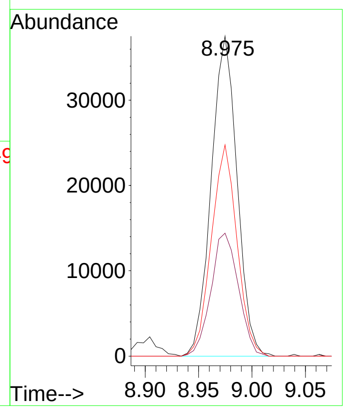


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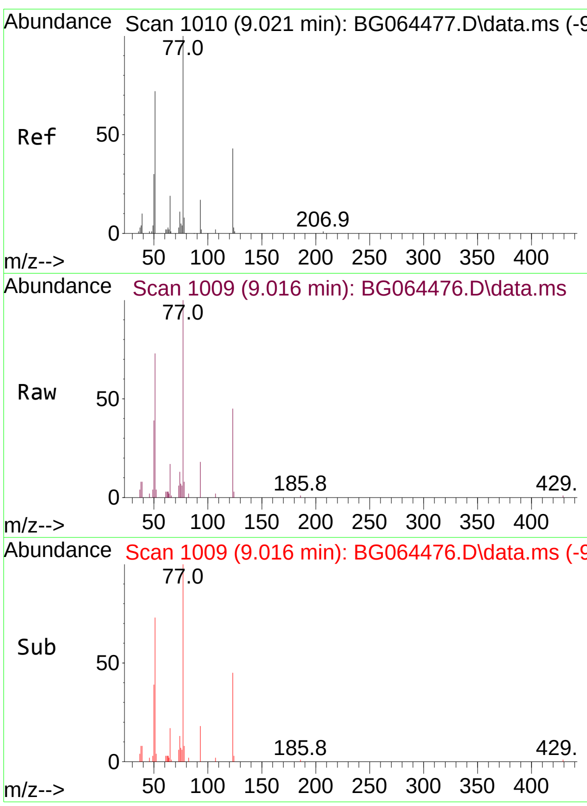
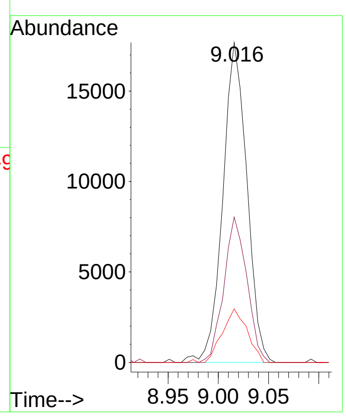
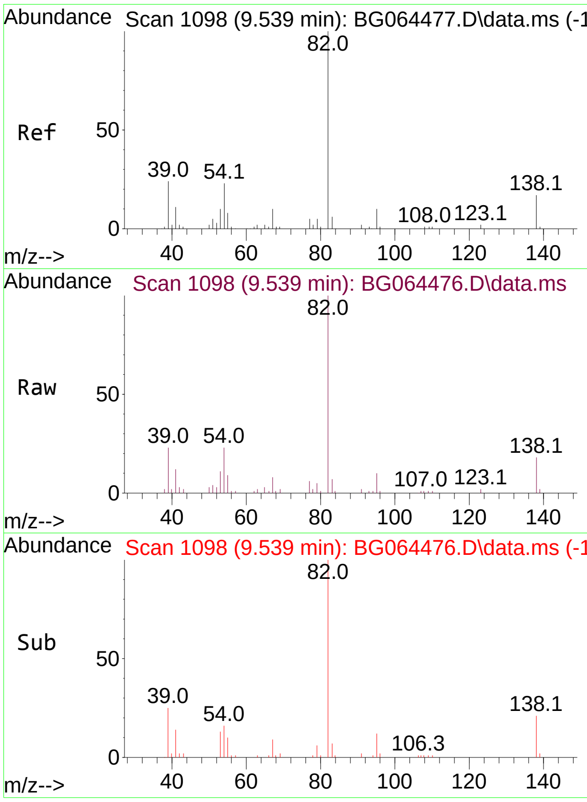



#24
Nitrobenzene
Concen: 18.981 ng
RT: 9.016 min Scan# 1009
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 77 Resp: 29530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 45.4 | 34.4 | 51.6 |
| 65 | 16.7 | 14.8 | 22.2 |






#25
Isophorone
Concen: 20.004 ng
RT: 9.539 min Scan# 10
Delta R.T. 0.008 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 82 Resp: 5653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 10.4 | 7.8 | 11.8 |
| 138 | 18.3 | 13.8 | 20.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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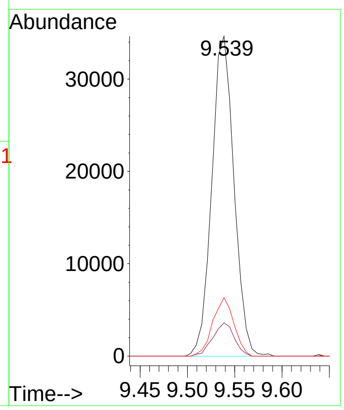


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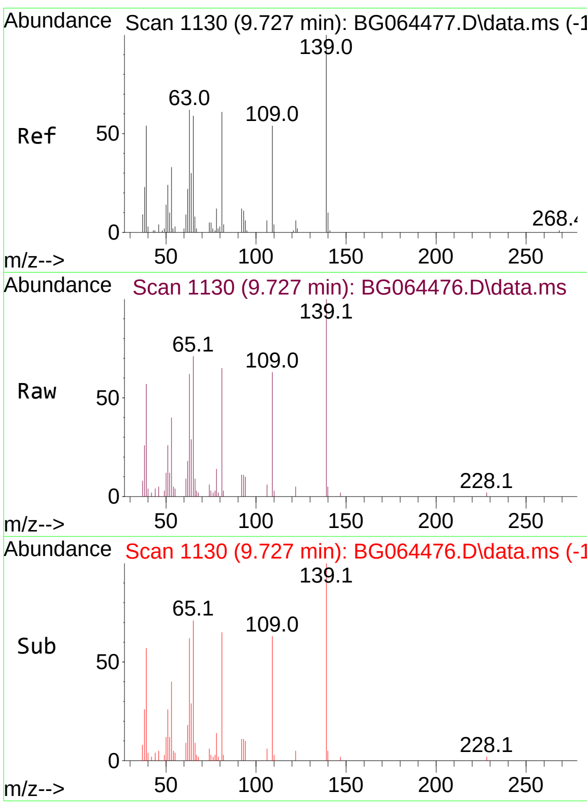
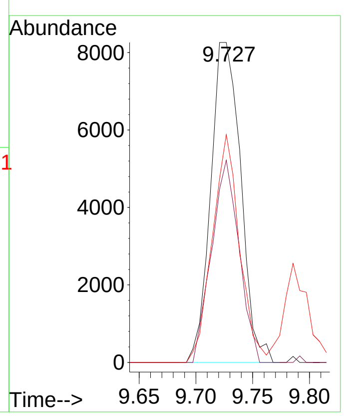



#26
2-Nitrophenol
Concen: 19.641 ng
RT: 9.727 min Scan# 1130
Delta R.T. 0.008 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:139 Resp: 15208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 63.2 | 43.0 | 64.6 |
| 65 | 71.2 | 47.4 | 71.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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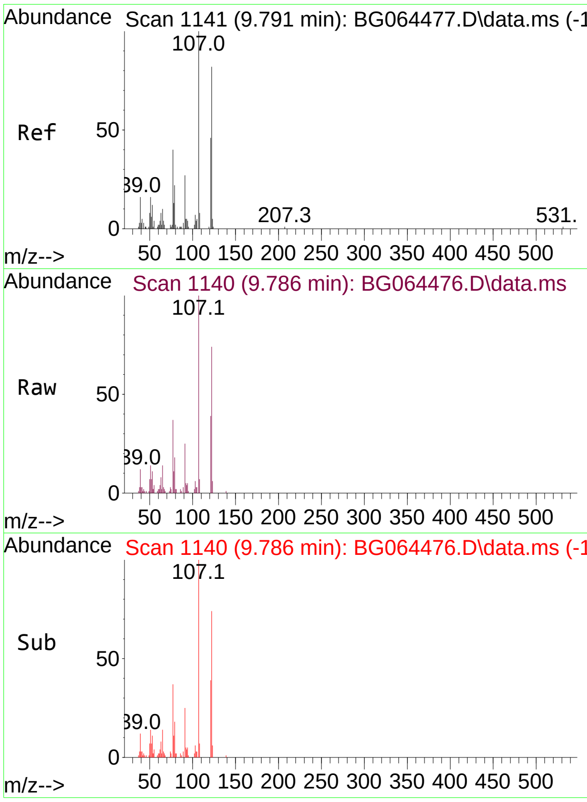
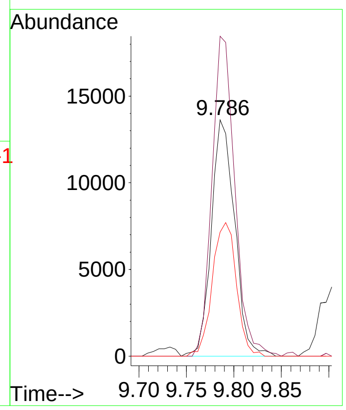
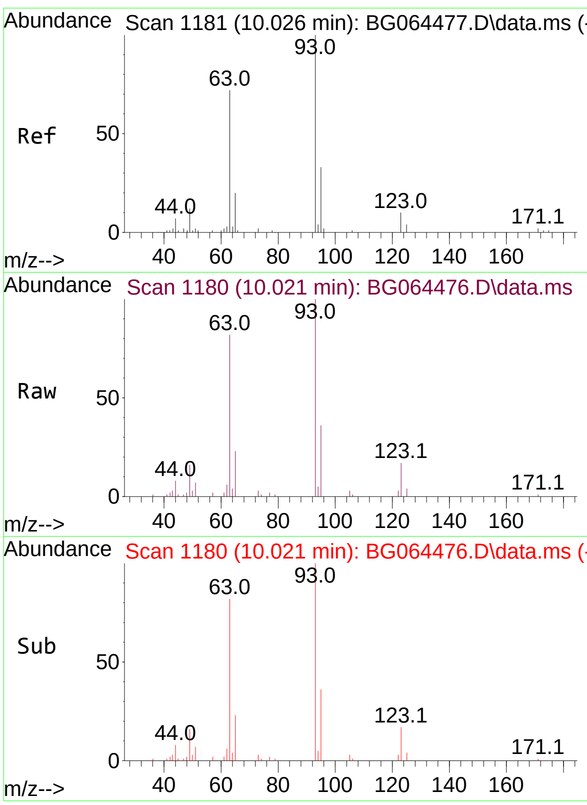



#27
2,4-Dimethylphenol
Concen: 19.778 ng
RT: 9.786 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:122 Resp: 2339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 135.4 | 98.3 | 147.5 |
| 121 | 52.5 | 44.7 | 67.1 |

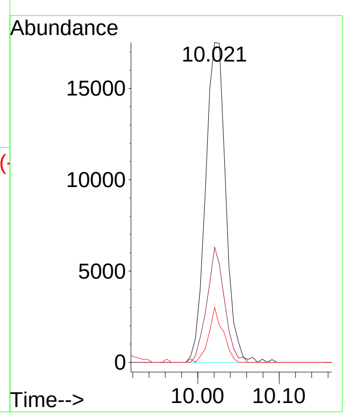



#28
bis(2-Chloroethoxy)methane
Concen: 21.017 ng
RT: 10.021 min Scan# 1180
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 93 Resp: 30279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 36.0 | 26.5 | 39.7 |
| 123 | 17.2 | 8.9 | 13.3# |



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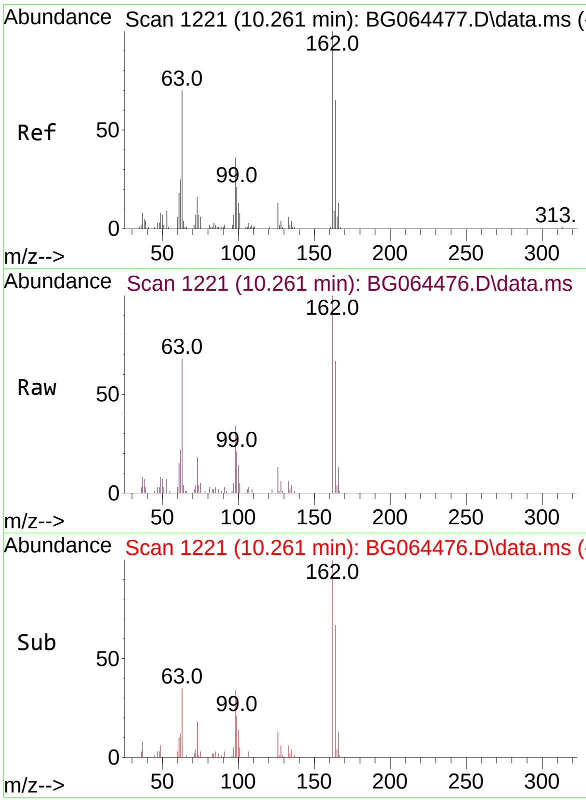
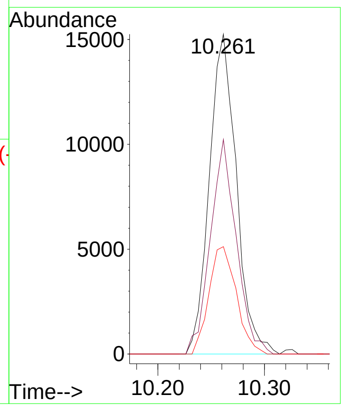



#29
2,4-Dichlorophenol
Concen: 19.691 ng
RT: 10.261 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:162 Resp: 2692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 67.1 | 45.4 | 85.4 |
| 98 | 33.6 | 16.4 | 56.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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Reviewed By :Rahul Chavli
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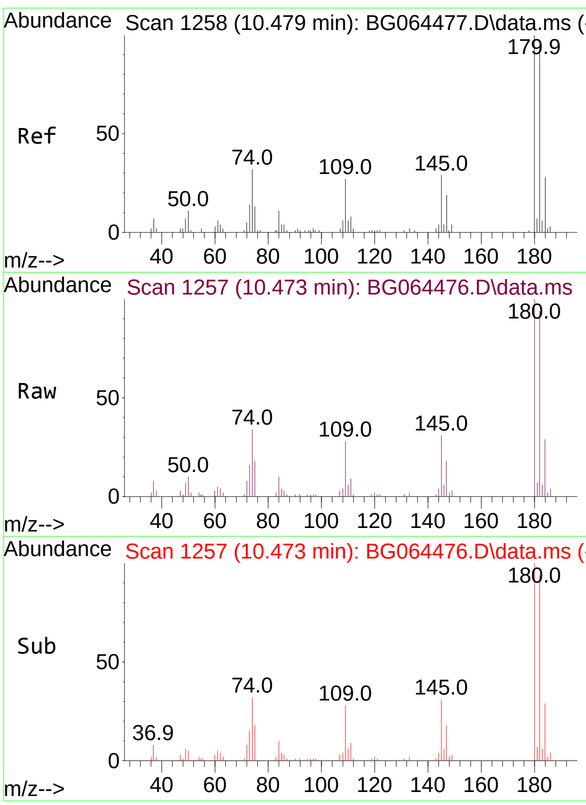
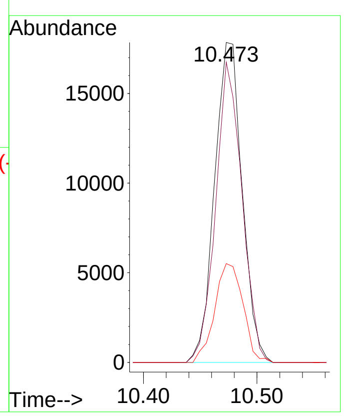



#30
1,2,4-Trichlorobenzene
Concen: 20.255 ng
RT: 10.473 min Scan# 1257
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:180 Resp: 30204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 75.4 | 113.2 |
| 145 | 30.9 | 23.2 | 34.8 |



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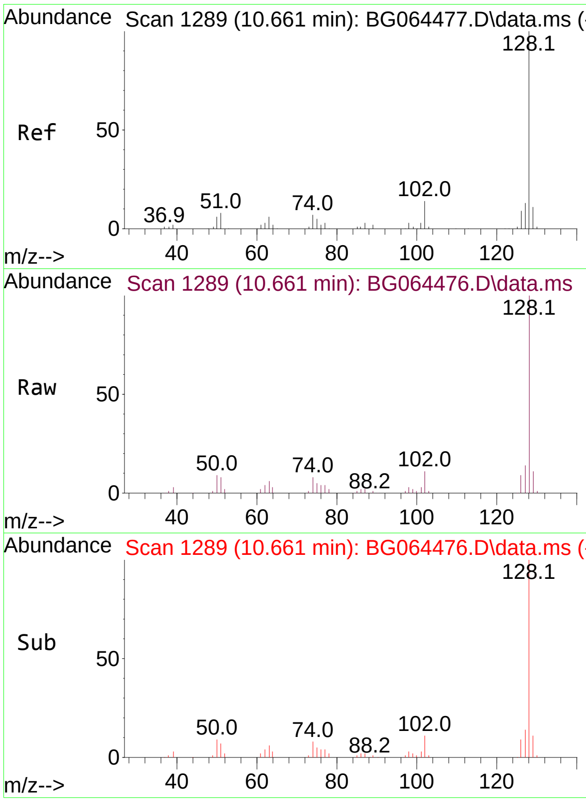


#31
Naphthalene
Concen: 19.671 ng
RT: 10.661 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:128 Resp: 8497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 8.7 | 13.1 |
| 127 | 14.0 | 10.2 | 15.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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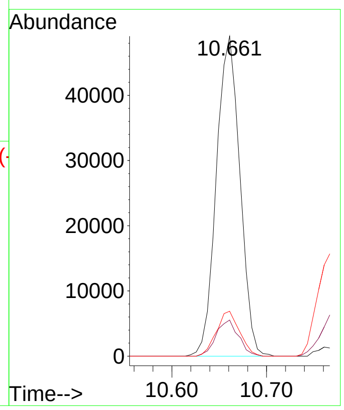


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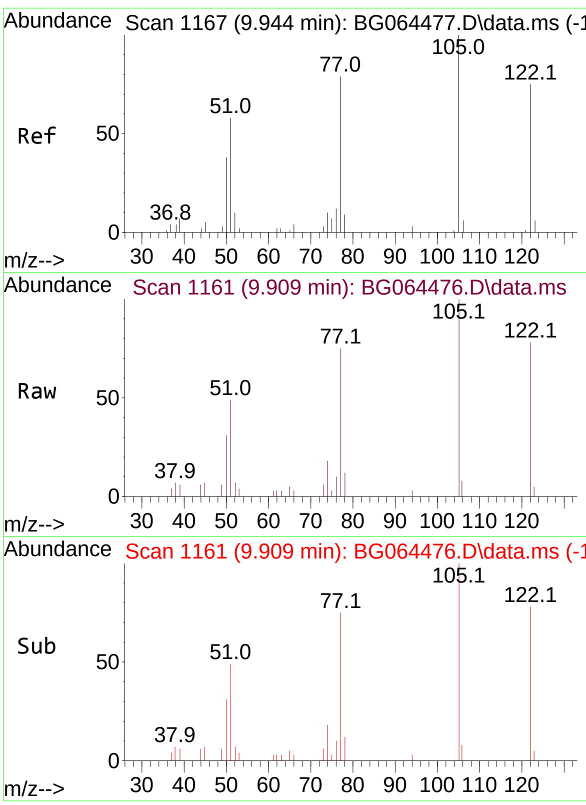
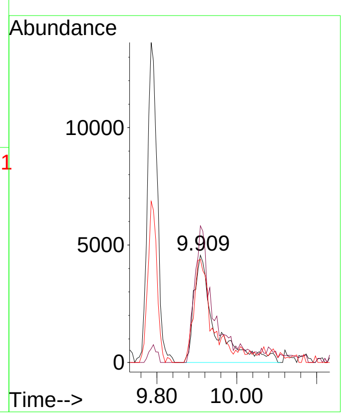
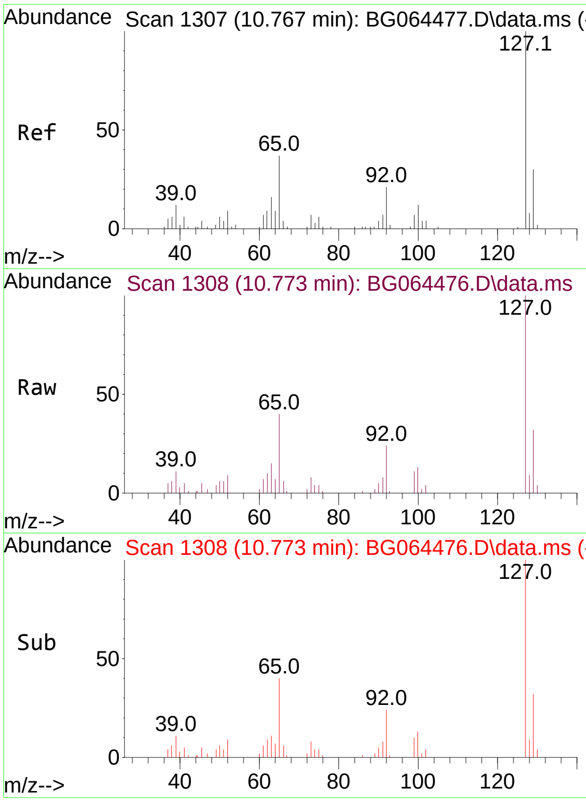



#32
Benzoic acid
Concen: 18.305 ng m
RT: 9.909 min Scan# 1161
Delta R.T. 0.020 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:122 Resp: 16621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 127.6 | 113.9 | 153.9 |
| 77 | 96.3 | 86.1 | 126.1 |

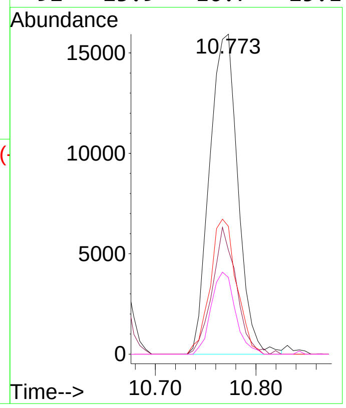





#33
4-Chloroaniline
Concen: 18.874 ng
RT: 10.773 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:127 Resp: 3128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.5 | 24.2 | 36.4 |
| 65 | 39.9 | 29.6 | 44.4 |
| 92 | 23.9 | 16.7 | 25.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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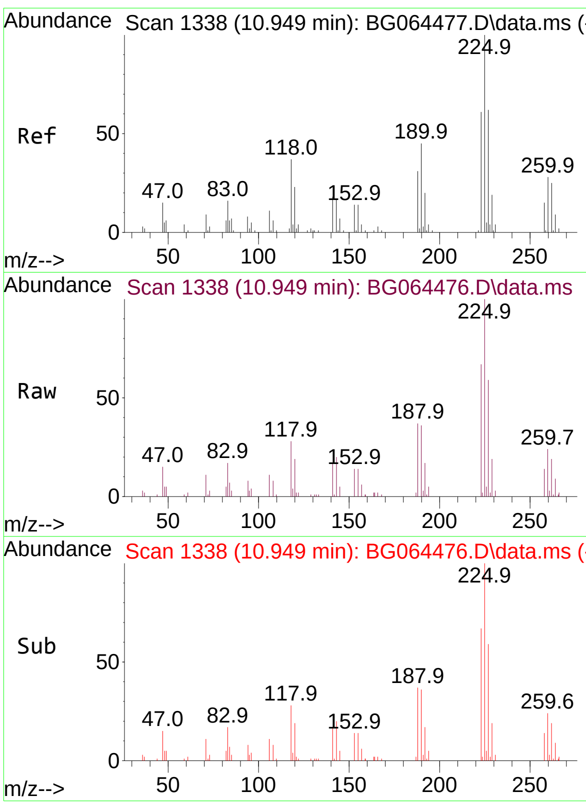
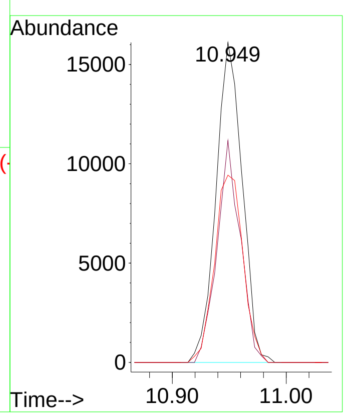



#34
Hexachlorobutadiene
Concen: 20.205 ng
RT: 10.949 min Scan# 1338
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:225 Resp: 25803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 69.3 | 49.0 | 73.6 |
| 227 | 58.5 | 49.9 | 74.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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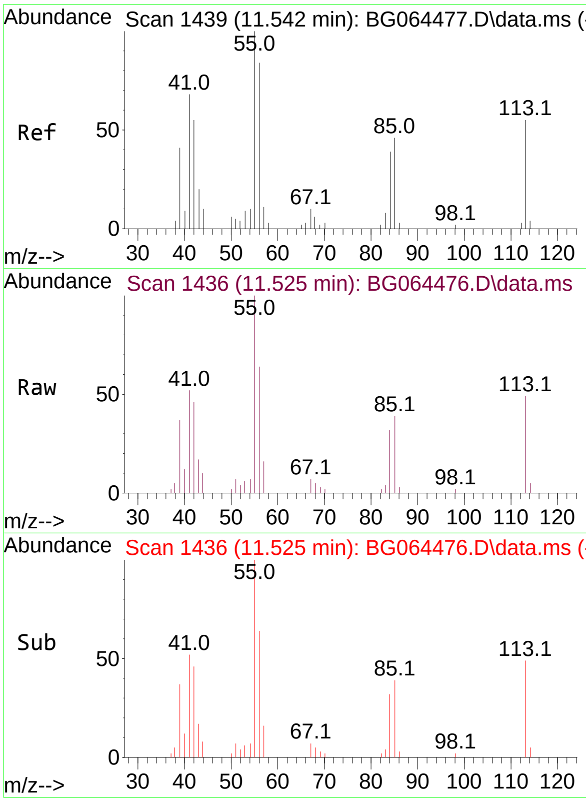
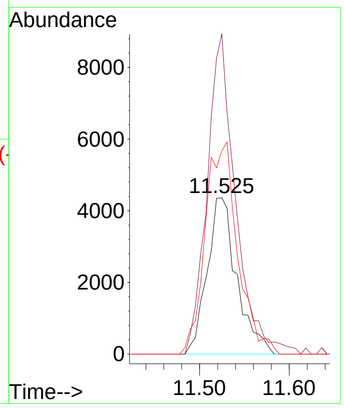
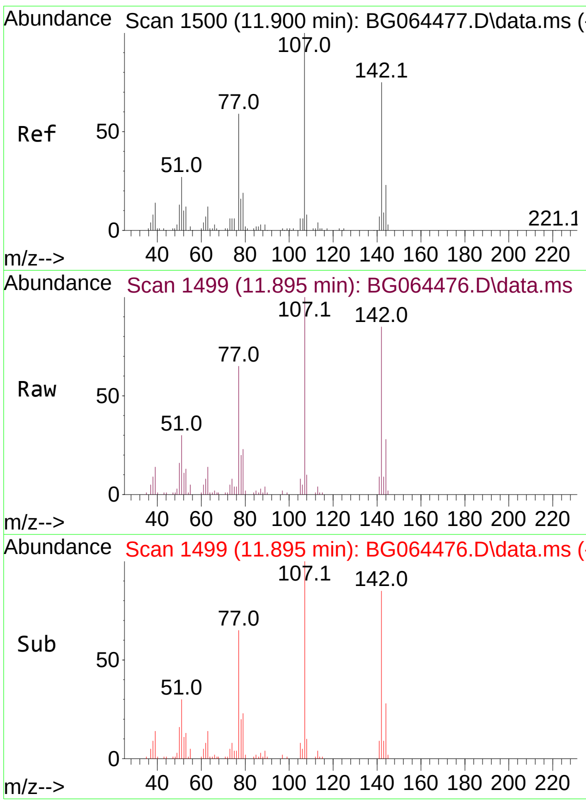



#35
Caprolactam
Concen:   21.453 ng
RT:  11.525 min  Scan# 14
Delta R.T.  0.014 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:113 Resp:   1004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 204.7 | 162.0 | 202.0# |
| 56 | 130.1 | 134.6 | 174.6# |

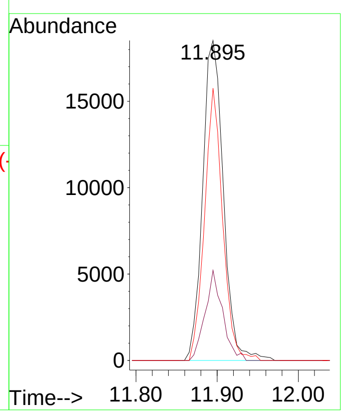



#36
4-Chloro-3-methylphenol
Concen:   19.795 ng
RT:  11.895 min  Scan# 1499
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:107 Resp:   32921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 28.1 | 18.7 | 28.1# |
| 142 | 85.0 | 60.2 | 90.2 |



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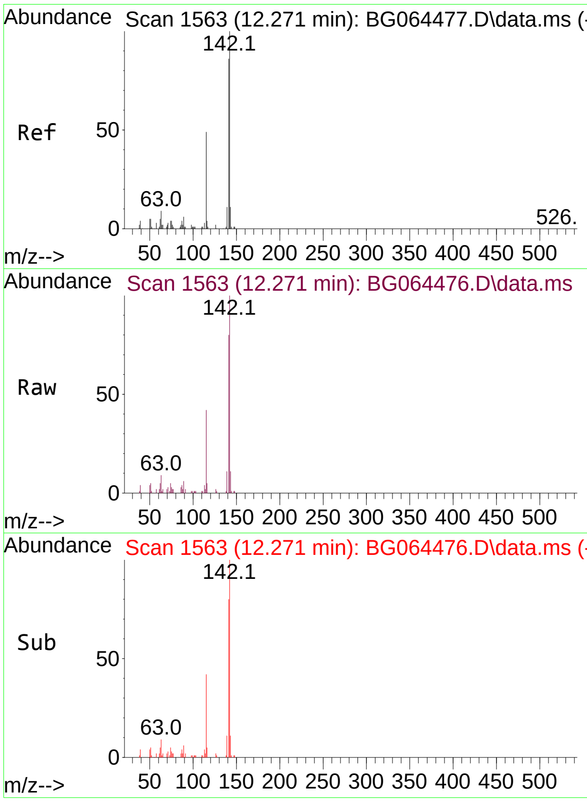


#37
2-Methylnaphthalene
Concen:   19.995 ng
RT:  12.271 min  Scan# 1!
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:142 Resp:   6630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 80.2 | 68.7 | 103.1 |
| 115 | 41.9 | 39.3 | 58.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
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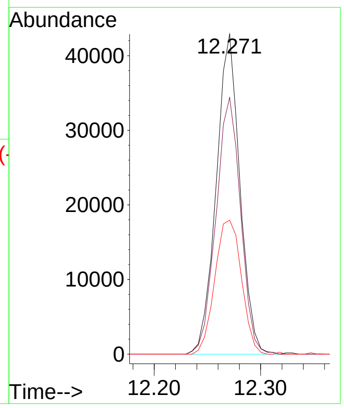


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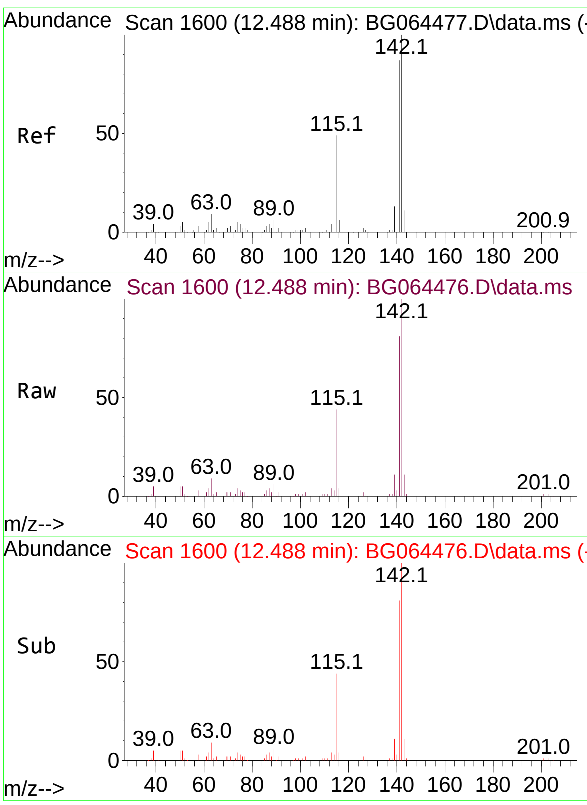
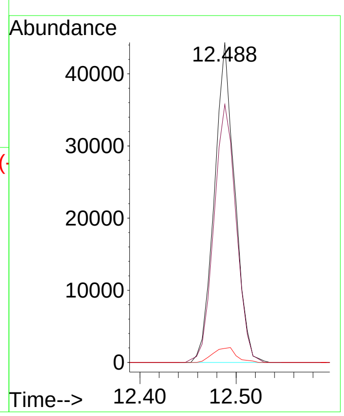
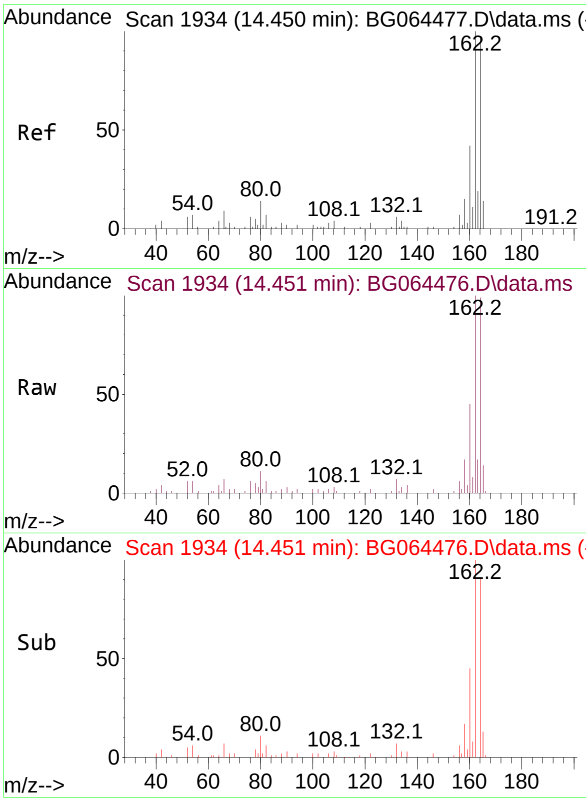



#38
1-Methylnaphthalene
Concen:   19.840 ng m
RT:  12.488 min  Scan# 1600
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:142 Resp:   65599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 80.6 | 69.8 | 104.8 |
| 116 | 4.4 | 4.6 | 6.8# |

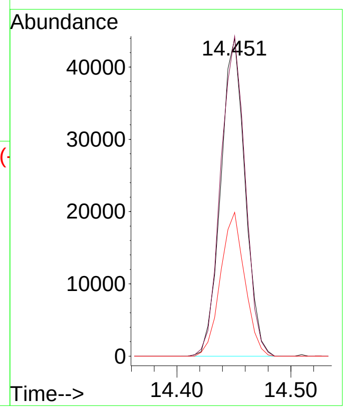





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.451 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:164 Resp: 6528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.8 | 82.2 | 123.2 |
| 160 | 45.3 | 34.3 | 51.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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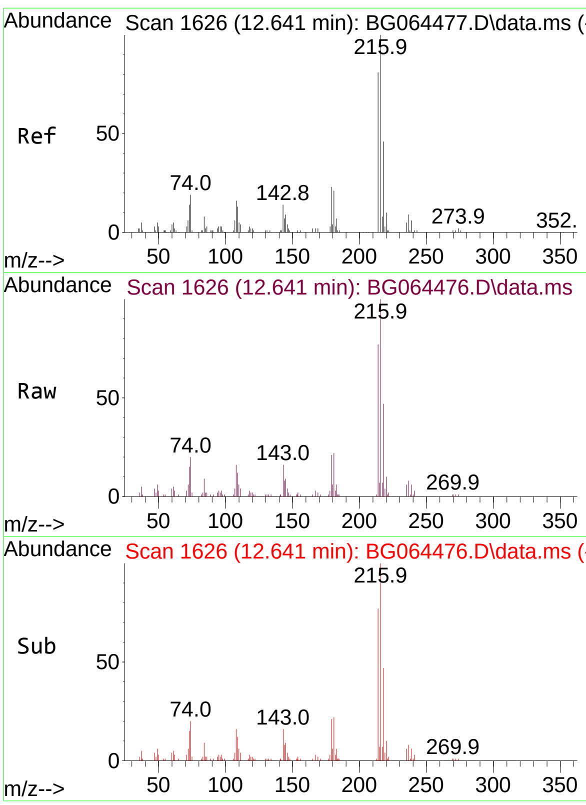
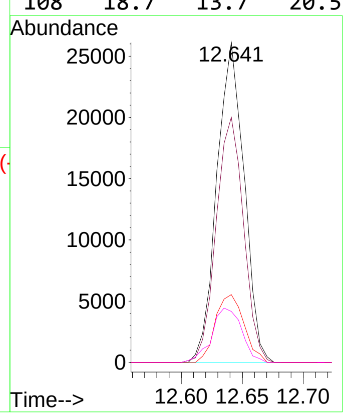
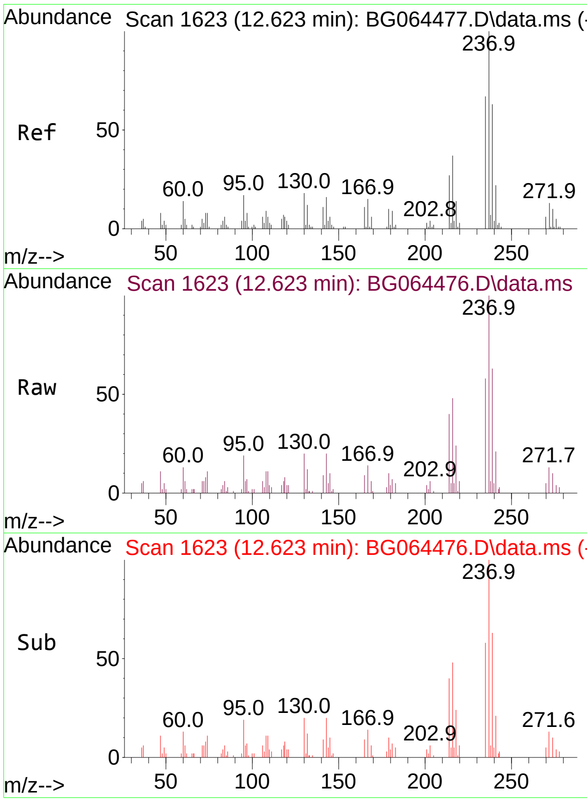



#40
1,2,4,5-Tetrachlorobenzene
Concen: 19.252 ng
RT: 12.641 min Scan# 1626
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:216 Resp: 40584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.0 | 62.5 | 93.7 |
| 179 | 22.3 | 17.0 | 25.6 |
| 108 | 18.7 | 13.7 | 20.5 |

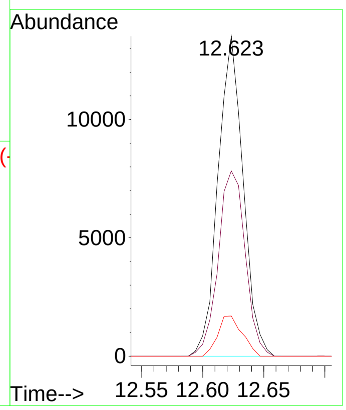





#41
Hexachlorocyclopentadiene
Concen: 17.510 ng
RT: 12.623 min Scan# 16
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:237 Resp: 1930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 57.9 | 46.9 | 86.9 |
| 272 | 12.5 | 0.0 | 32.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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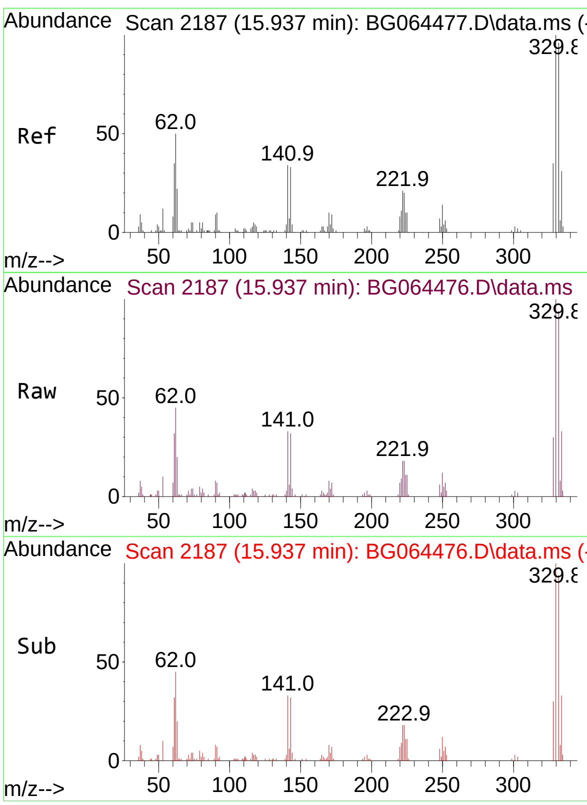
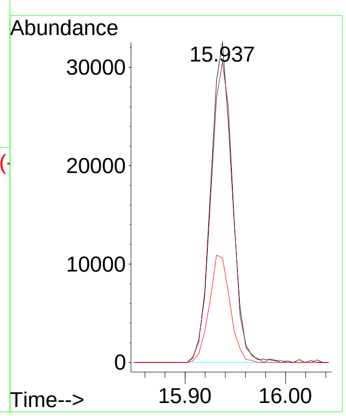



#42
2,4,6-Tribromophenol
Concen: 40.505 ng
RT: 15.937 min Scan# 2187
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:330 Resp: 47936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 77.4 | 116.0 |
| 141 | 32.7 | 25.8 | 38.6 |



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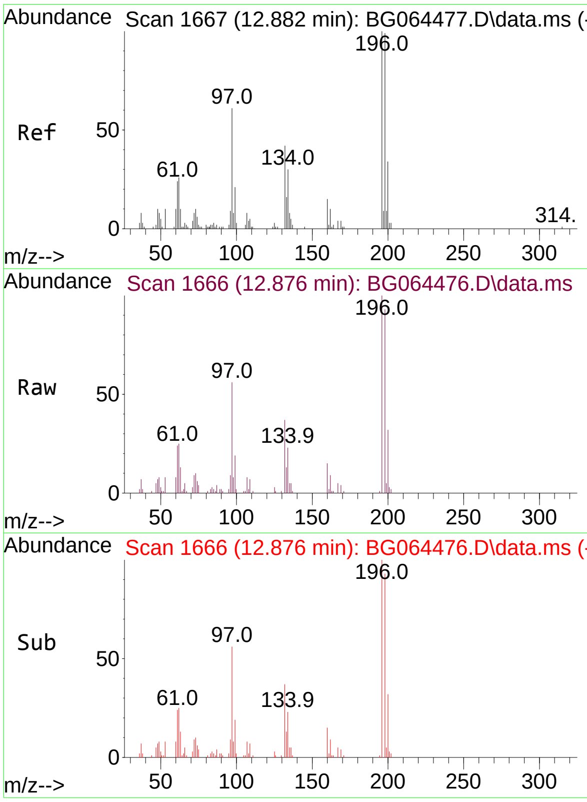
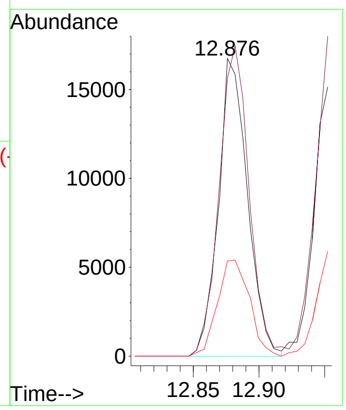



#43
2,4,6-Trichlorophenol
Concen: 19.167 ng
RT: 12.876 min Scan# 16
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:196 Resp: 2583(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 93.4 | 79.3 | 118.9 |
| 200 | 31.9 | 27.4 | 41.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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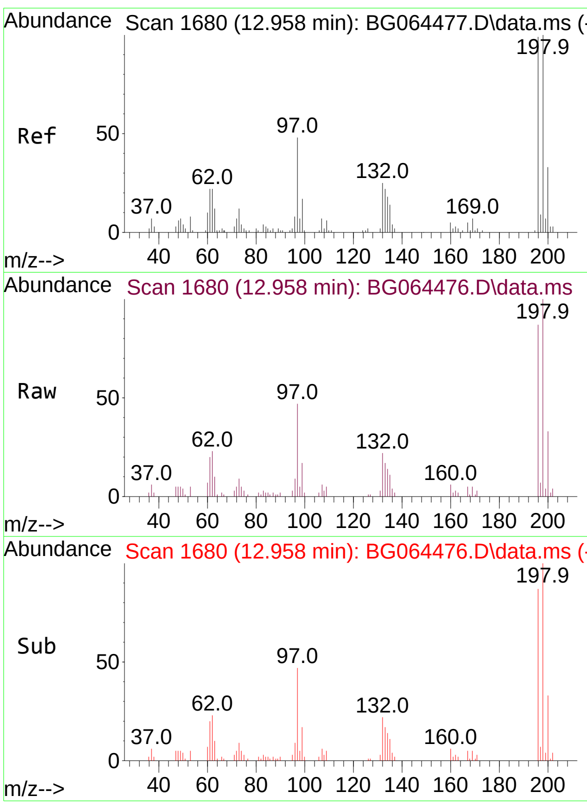
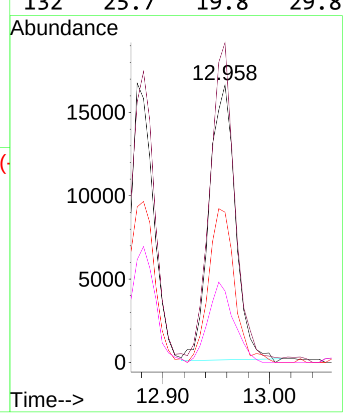
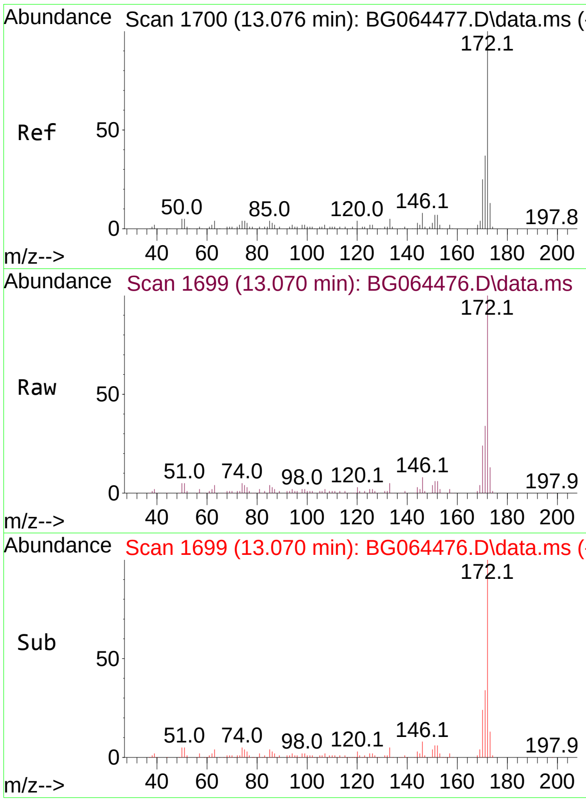



#44
2,4,5-Trichlorophenol
Concen: 18.678 ng
RT: 12.958 min Scan# 1680
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:196 Resp: 28101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 115.2 | 80.3 | 120.5 |
| 97 | 54.1 | 39.4 | 59.0 |
| 132 | 25.7 | 19.8 | 29.8 |






#45
2-Fluorobiphenyl
Concen: 39.679 ng
RT: 13.070 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:172 Resp: 17575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 33.6 | 29.6 | 44.4 |
| 170 | 23.6 | 20.2 | 30.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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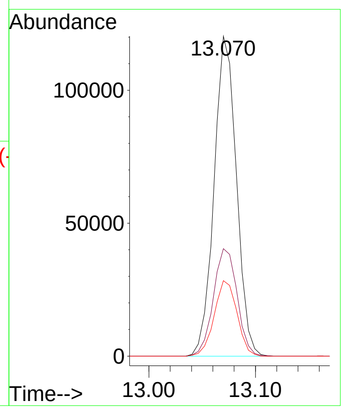


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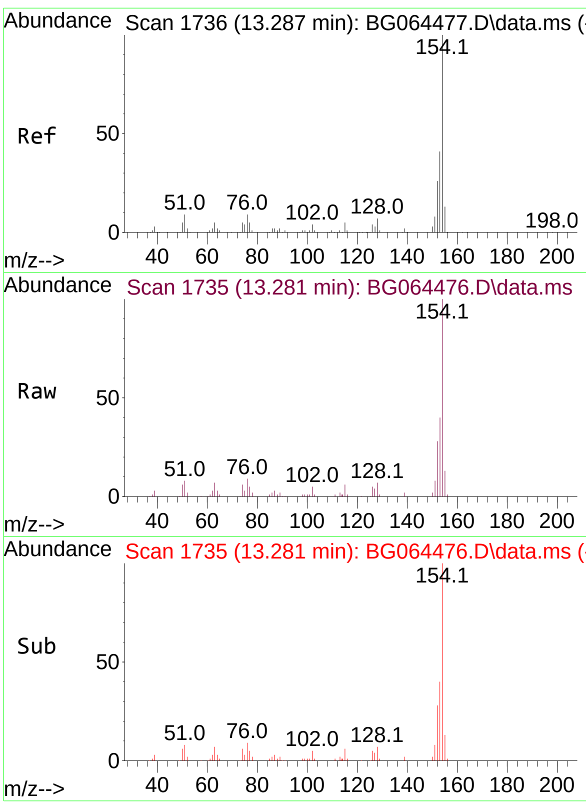
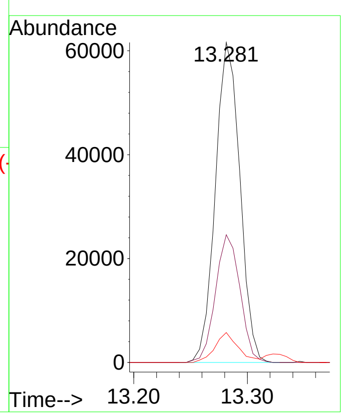
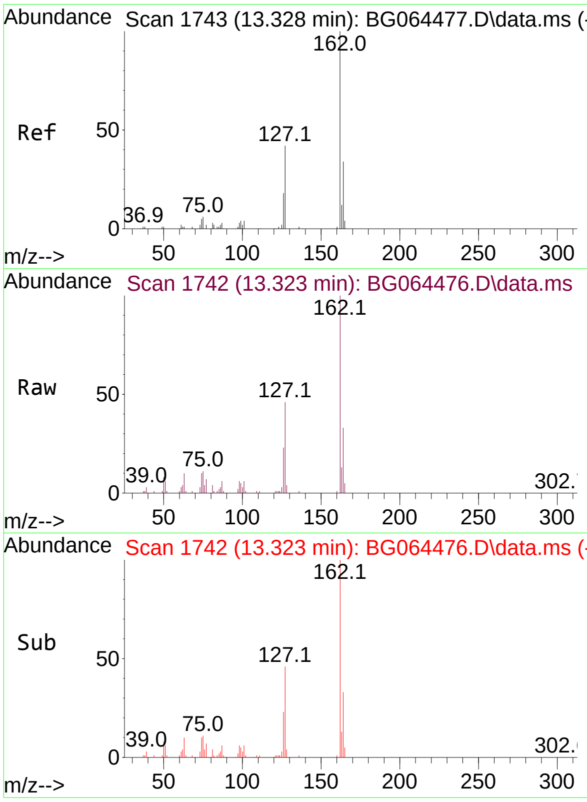



#46
1,1'-Biphenyl
Concen: 19.695 ng
RT: 13.281 min Scan# 1735
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:154 Resp: 92485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.9 | 20.7 | 60.7 |
| 76 | 9.3 | 0.0 | 29.3 |

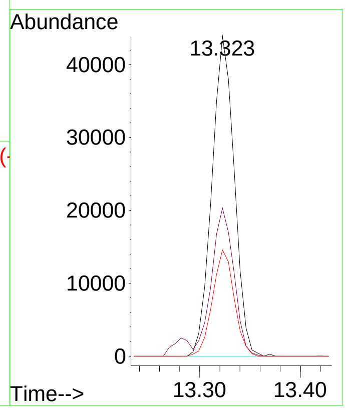





#47
2-Chloronaphthalene
Concen:   19.473 ng
RT:  13.323 min   Scan# 1
Delta R.T.   0.003 min
Lab File:    BG064476.D
Acq:  2 Oct 2025   11:33

Tgt Ion:162 Resp:    6827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 46.2 | 35.8 | 53.8 |
| 164 | 33.2 | 27.2 | 40.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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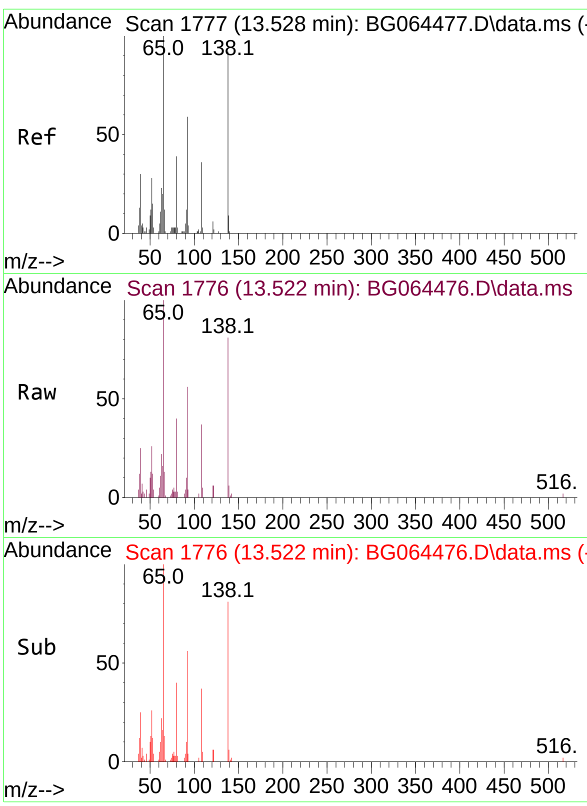
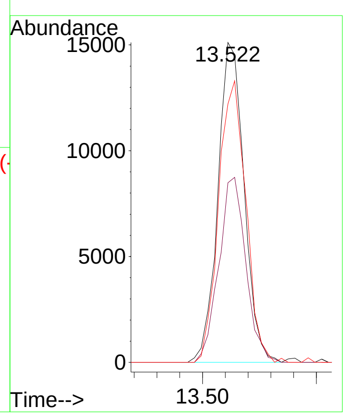



#48
2-Nitroaniline
Concen:   20.234 ng
RT:  13.522 min   Scan# 1776
Delta R.T.   -0.003 min
Lab File:    BG064476.D
Acq:  2 Oct 2025   11:33

Tgt Ion: 65 Resp:    24212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 56.1 | 47.0 | 70.6 |
| 138 | 80.7 | 73.5 | 110.3 |



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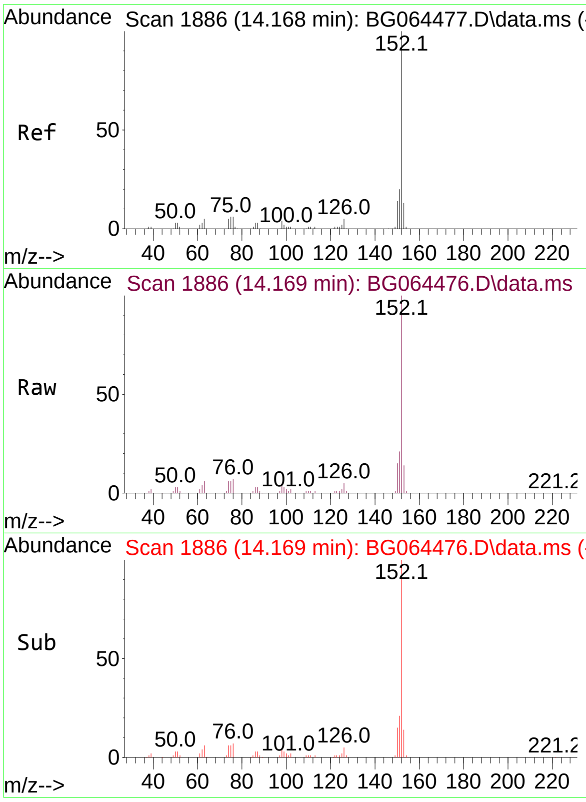
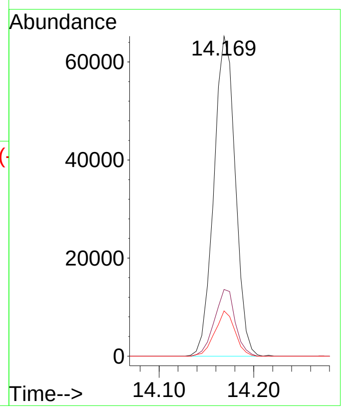



#49
Acenaphthylene
Concen:   19.727 ng
RT:  14.169 min  Scan# 18
Delta R.T.  -0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:152 Resp:  10266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 15.8 | 23.6 |
| 153 | 14.1 | 10.6 | 15.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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Supervised By :Jagrut Upadhyay

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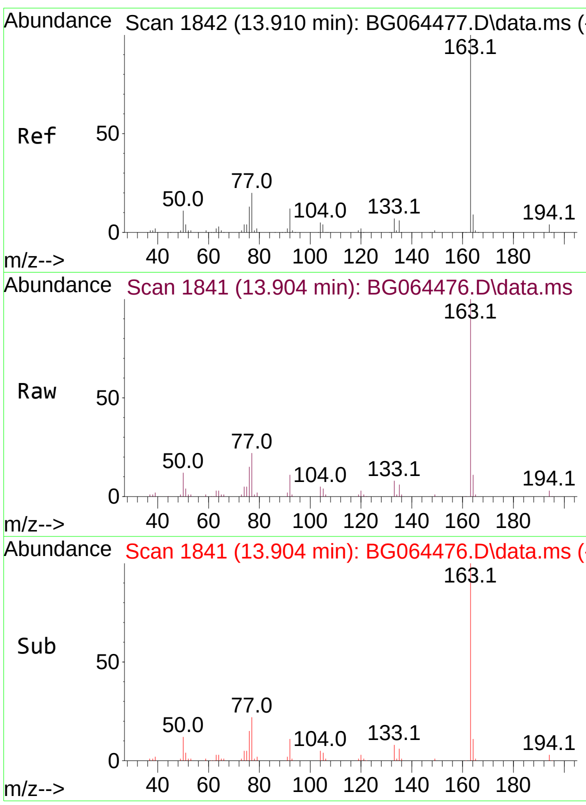
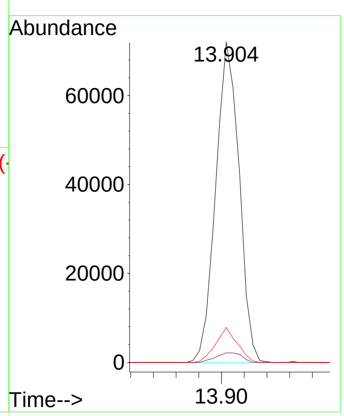
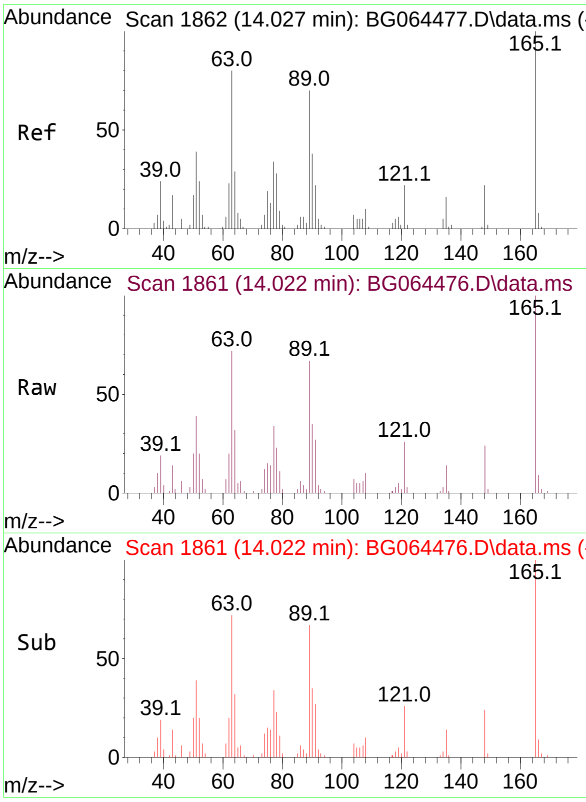



#50
Dimethylphthalate
Concen:   20.204 ng
RT:  13.904 min  Scan# 1841
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:163 Resp:  103311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.0 | 2.9 | 4.3 |
| 164 | 10.9 | 7.4 | 11.0 |






#51
2,6-Dinitrotoluene
Concen: 20.559 ng
RT: 14.022 min Scan# 18
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:165 Resp: 2189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 72.3 | 63.9 | 95.9 |
| 89 | 66.8 | 56.1 | 84.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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Supervised By :Jagrut Upadhyay
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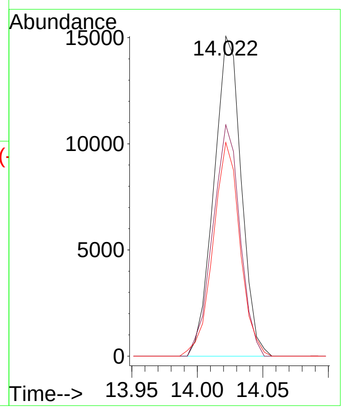
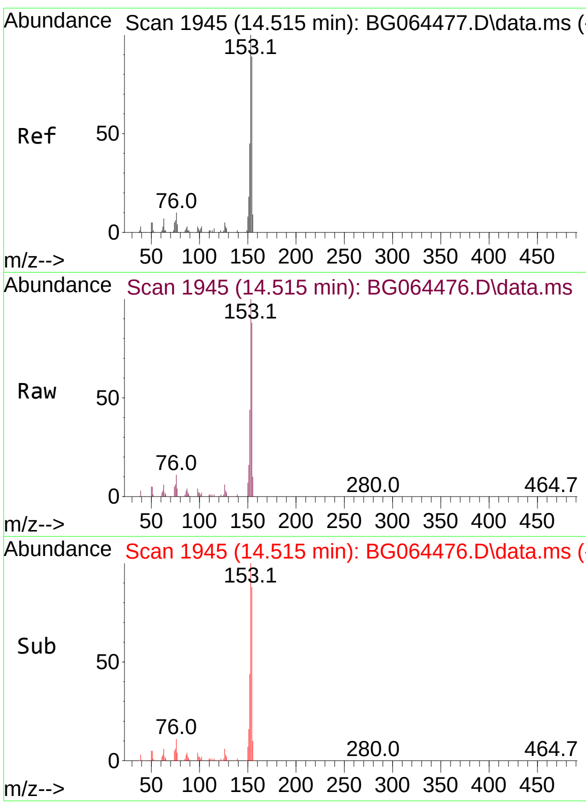
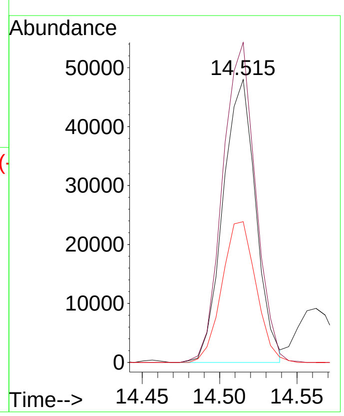


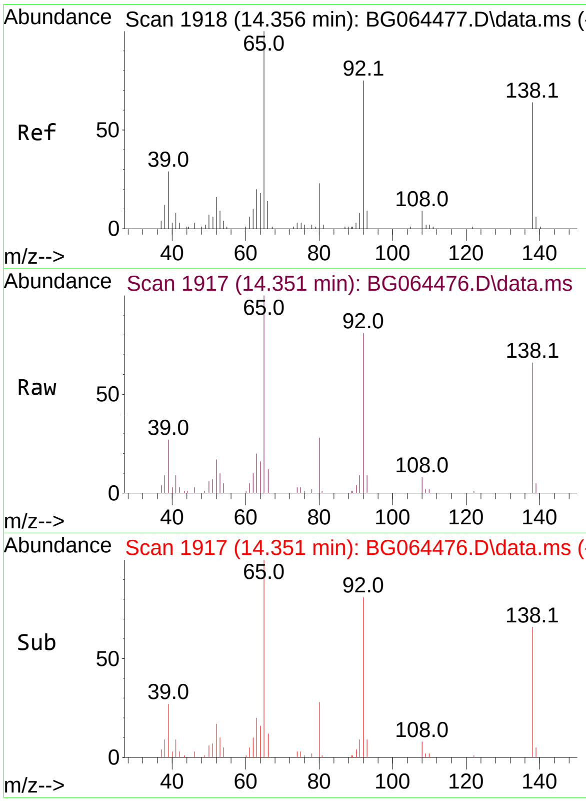




#52
Acenaphthene
Concen: 19.604 ng
RT: 14.515 min Scan# 1945
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:154 Resp: 70884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.1 | 90.2 | 135.4 |
| 152 | 49.7 | 40.2 | 60.4 |






#53
3-Nitroaniline
Concen:   19.956 ng
RT:  14.351 min  Scan# 1
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

Tgt Ion:138 Resp:   1960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.4 | 10.6 | 15.8 |
| 92 | 123.2 | 93.2 | 139.8 |

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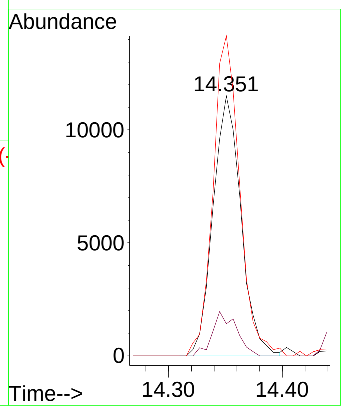


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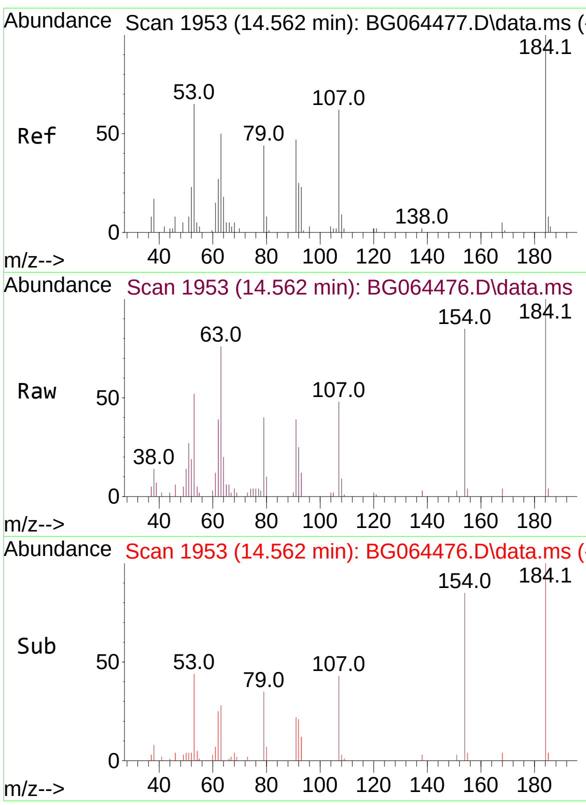
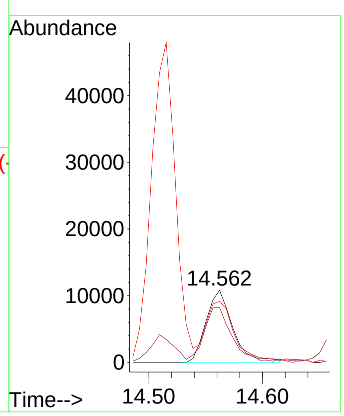



#54
2,4-Dinitrophenol
Concen:   22.843 ng
RT:  14.562 min  Scan# 1953
Delta R.T.  -0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:184 Resp:   17644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 76.3 | 69.0 | 103.4 |
| 154 | 84.7 | 95.6 | 143.4# |



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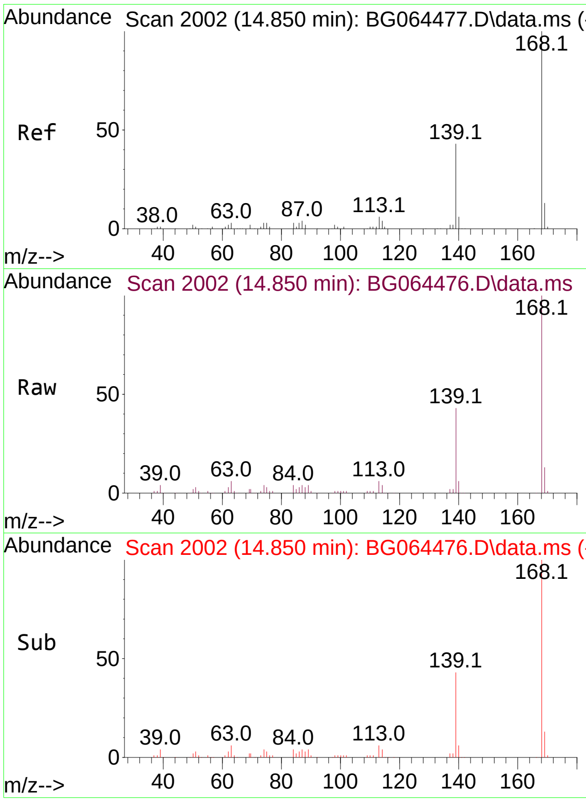
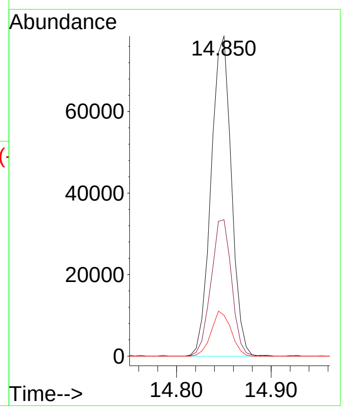



#55
Dibenzofuran
Concen: 19.680 ng
RT: 14.850 min Scan# 20
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:168 Resp: 11749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.6 | 34.0 | 51.0 |
| 169 | 12.8 | 10.2 | 15.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
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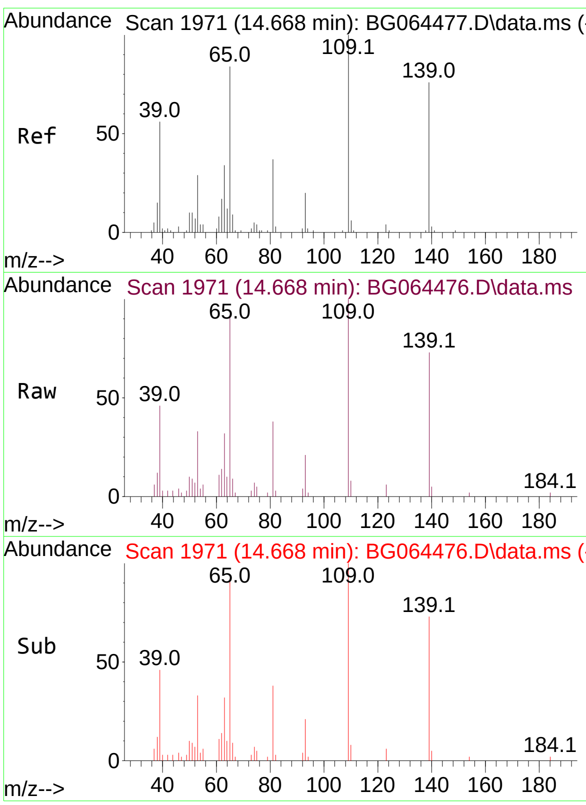
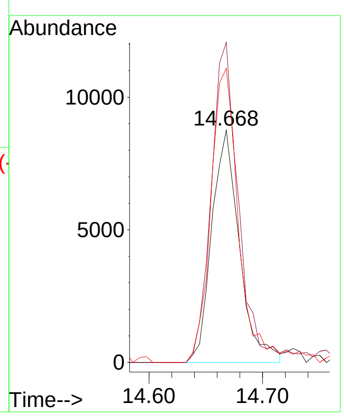
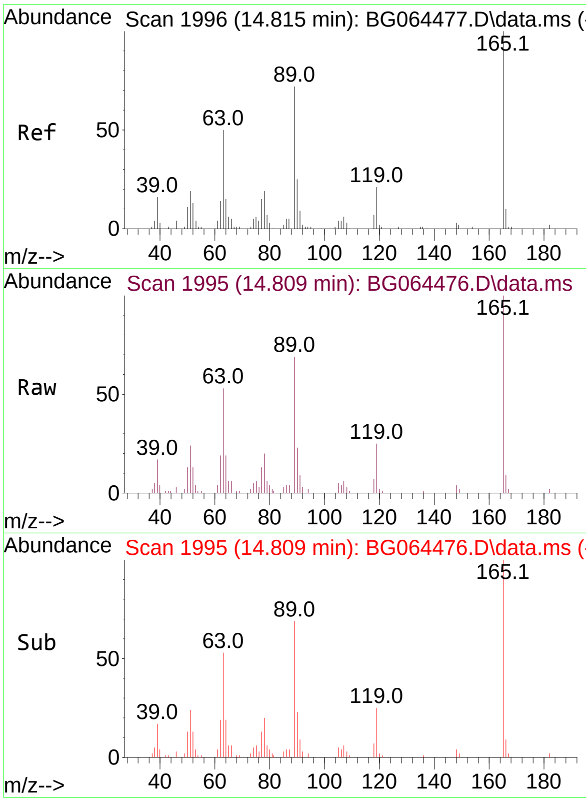



#56
4-Nitrophenol
Concen: 19.183 ng
RT: 14.668 min Scan# 1971
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:139 Resp: 14837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 137.9 | 111.8 | 151.8 |
| 65 | 126.7 | 91.1 | 131.1 |

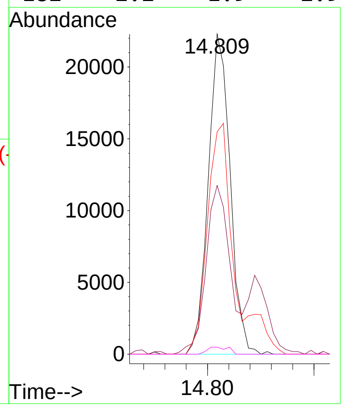





#57
2,4-Dinitrotoluene
Concen: 19.567 ng
RT: 14.809 min Scan# 19
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:165 Resp: 3186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 52.7 | 40.4 | 60.6 |
| 89 | 69.5 | 57.3 | 85.9 |
| 182 | 2.2 | 1.9 | 2.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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Supervised By :Jagrut Upadhyay
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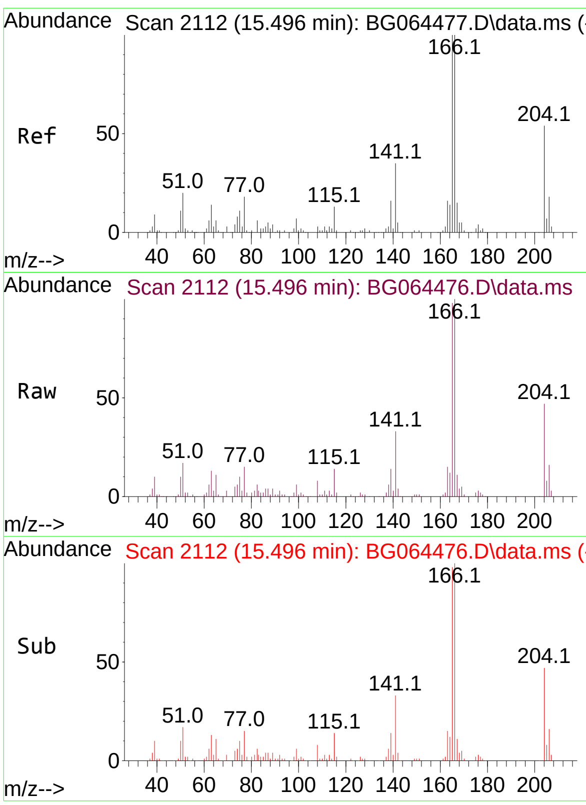
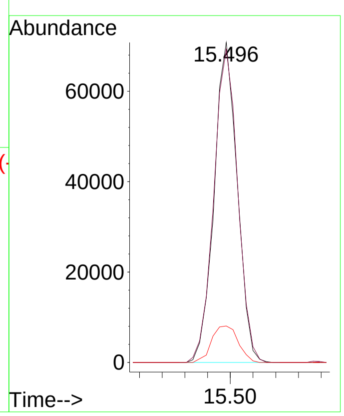



#58
Fluorene
Concen: 20.190 ng
RT: 15.496 min Scan# 2112
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:166 Resp: 100209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.9 | 79.8 | 119.6 |
| 167 | 11.4 | 11.7 | 17.5# |



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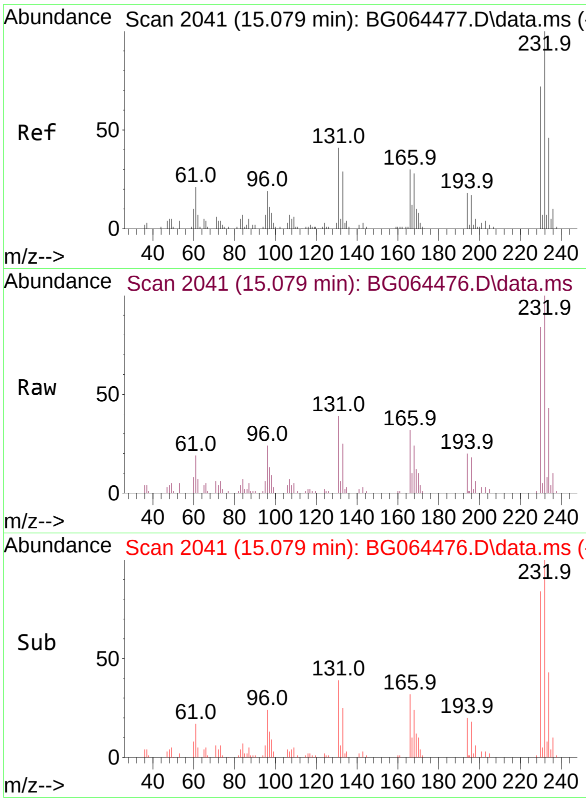
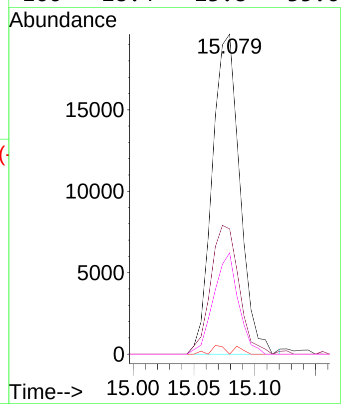



#59
2,3,4,6-Tetrachlorophenol
Concen: 20.205 ng
RT: 15.079 min Scan# 20
Delta R.T. 0.008 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:232 Resp: 3102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 41.2 | 35.0 | 52.4 |
| 130 | 1.3 | 2.0 | 3.0# |
| 166 | 28.4 | 23.8 | 35.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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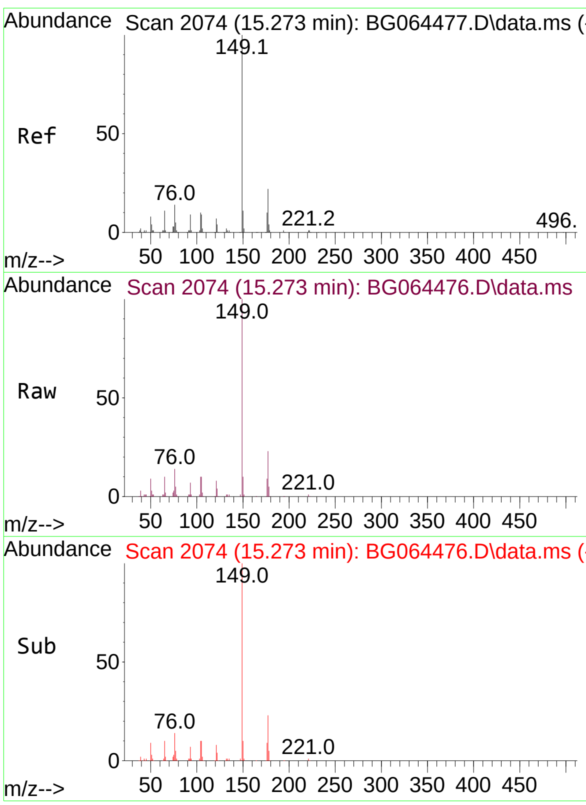
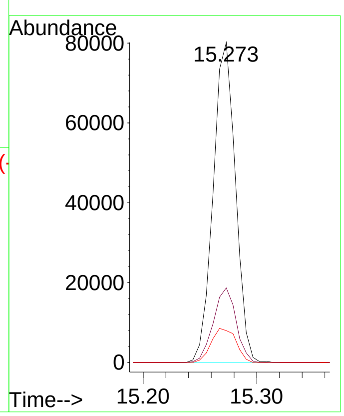
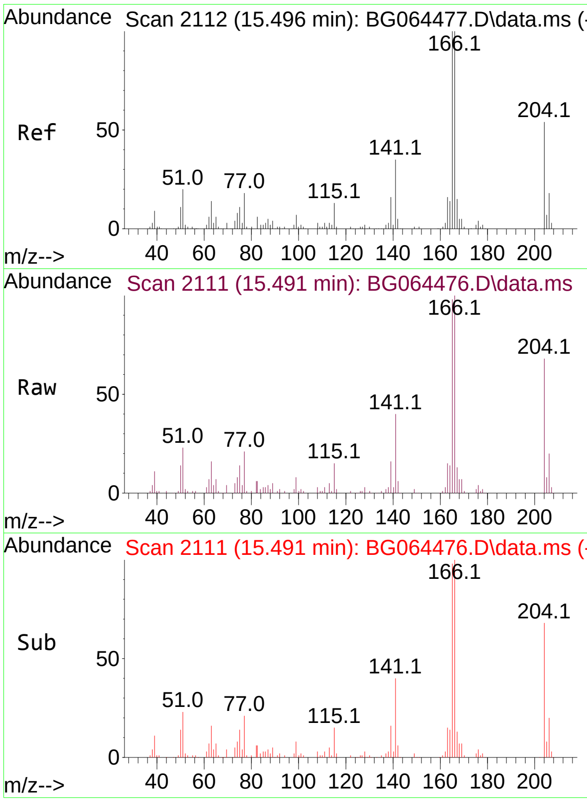



#60
Diethylphthalate
Concen: 19.981 ng
RT: 15.273 min Scan# 2074
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:149 Resp: 109604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.3 | 17.4 | 26.0 |
| 150 | 10.0 | 9.1 | 13.7 |






#61
4-Chlorophenyl-phenylether
Concen: 20.205 ng
RT: 15.491 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

Tgt Ion:204 Resp: 5475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 28.6 | 27.1 | 40.7 |
| 141 | 58.9 | 51.5 | 77.3 |

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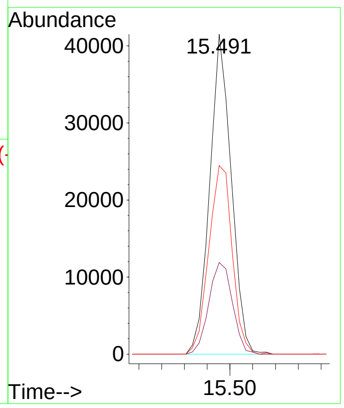


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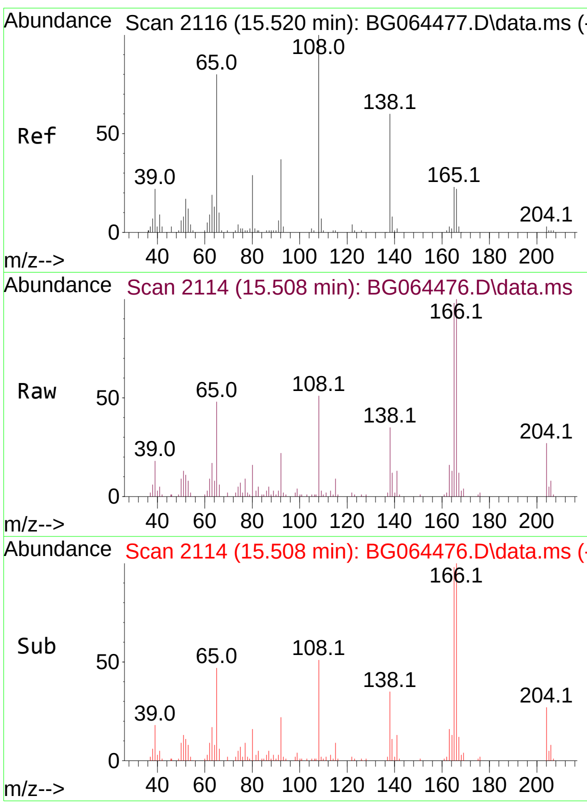
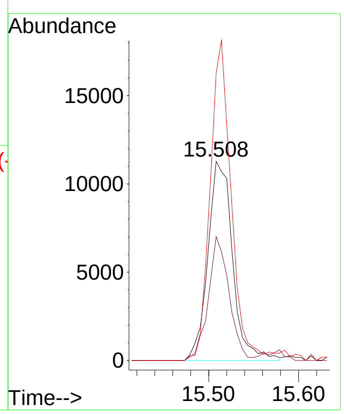
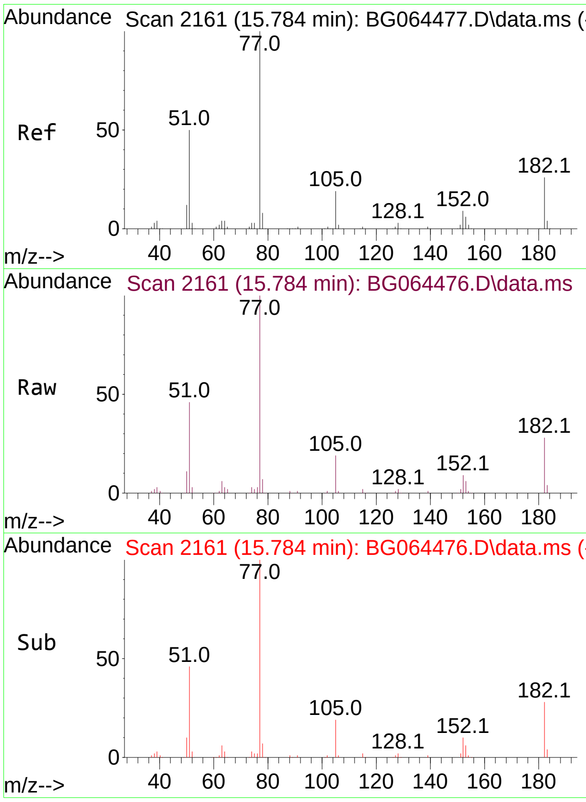



#62
4-Nitroaniline
Concen: 21.091 ng
RT: 15.508 min Scan# 2114
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:138 Resp: 21595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 62.2 | 42.3 | 82.3 |
| 108 | 144.5 | 147.7 | 187.7# |

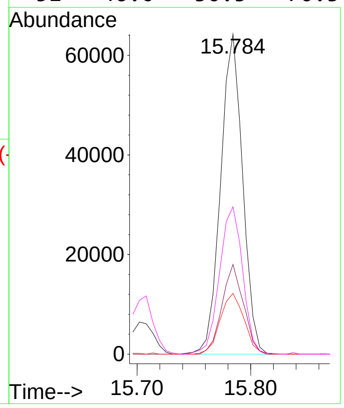





#63
Azobenzene
Concen: 20.370 ng
RT: 15.784 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion: 77 Resp: 8653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 28.0 | 6.3 | 46.3 |
| 105 | 19.0 | 0.0 | 38.7 |
| 51 | 46.0 | 30.3 | 70.3 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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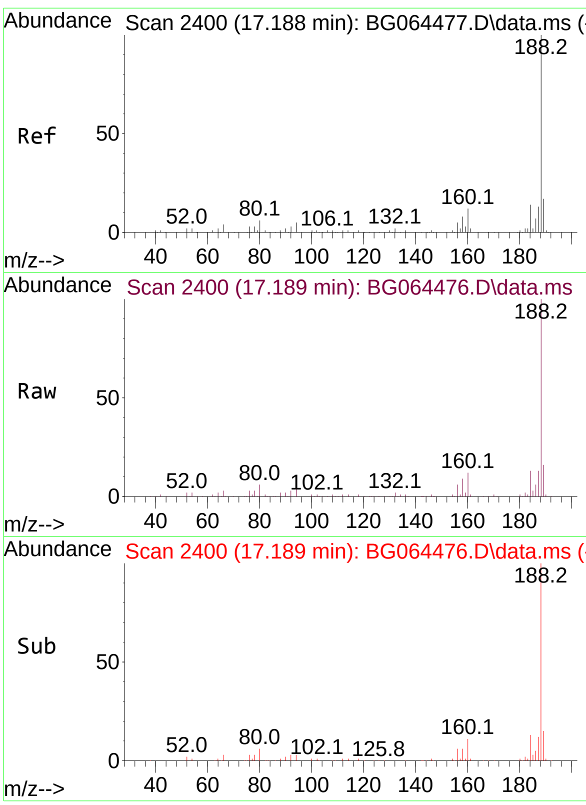
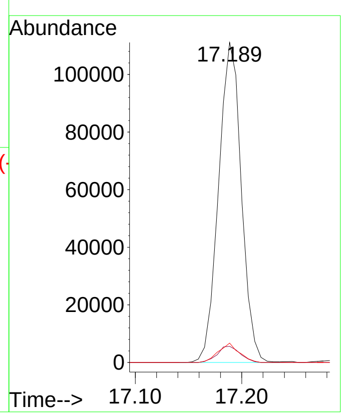
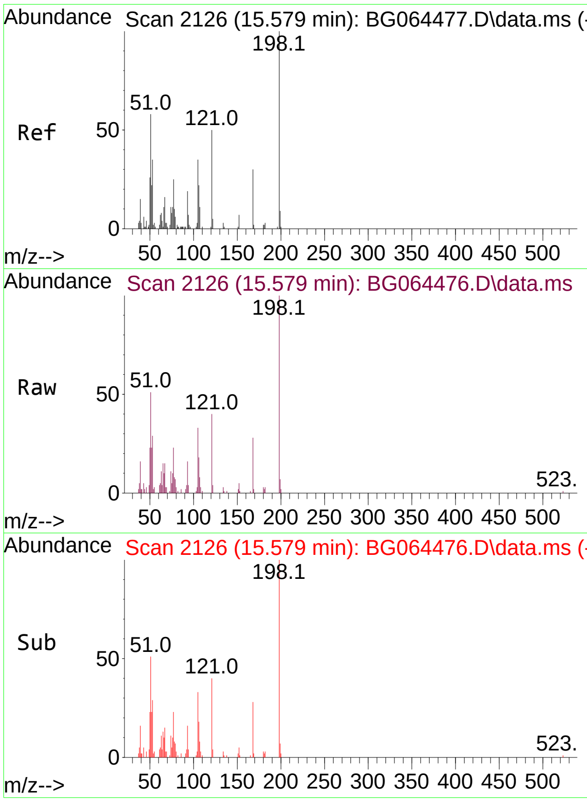



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.189 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:188 Resp: 165571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 5.0 | 3.7 | 5.5 |
| 80 | 6.0 | 4.5 | 6.7 |






#65
4,6-Dinitro-2-methylphenol
Concen:   19.942 ng
RT:  15.579 min  Scan# 21
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:198 Resp:   2298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 51.2 | 39.0 | 79.0 |
| 105 | 33.4 | 15.8 | 55.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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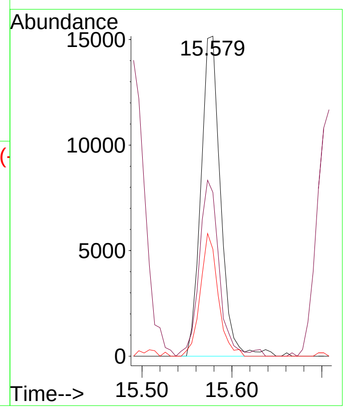
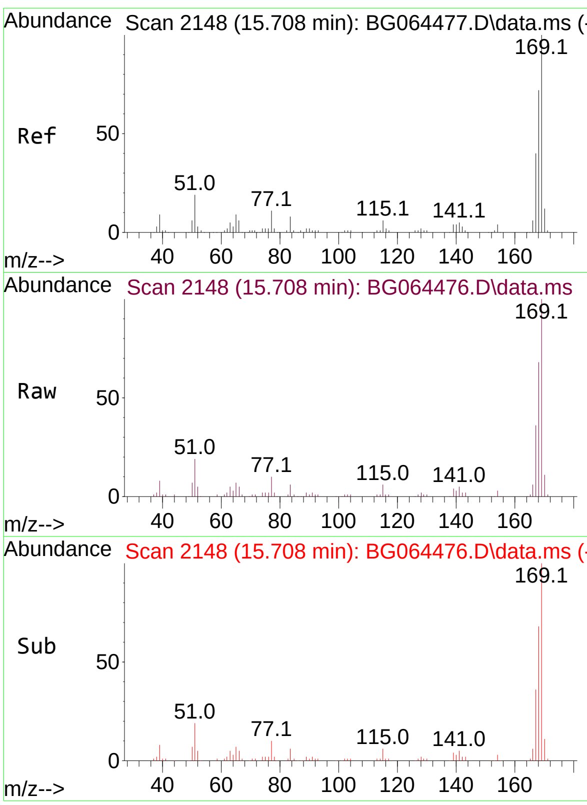
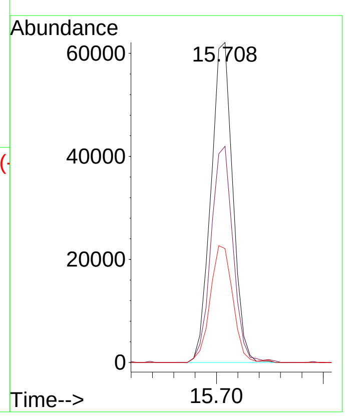



#66
n-Nitrosodiphenylamine
Concen:   19.986 ng
RT:  15.708 min  Scan# 2148
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:169 Resp:   88367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.5 | 57.8 | 86.6 |
| 167 | 35.6 | 31.7 | 47.5 |



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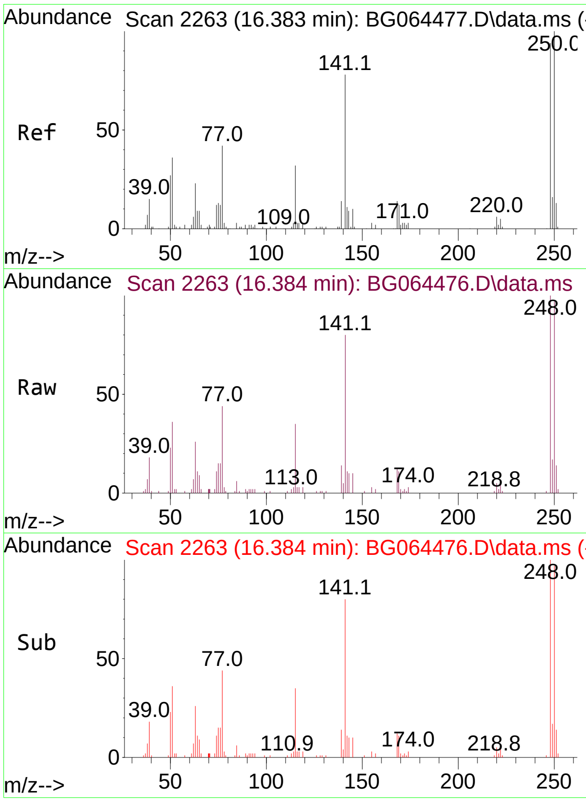


#67
4-Bromophenyl-phenylether
Concen: 19.310 ng
RT: 16.384 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:248 Resp: 3762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.2 | 85.3 | 127.9 |
| 141 | 79.9 | 66.2 | 99.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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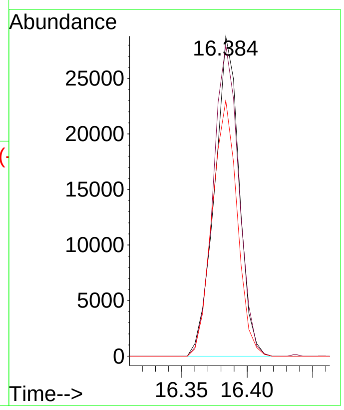


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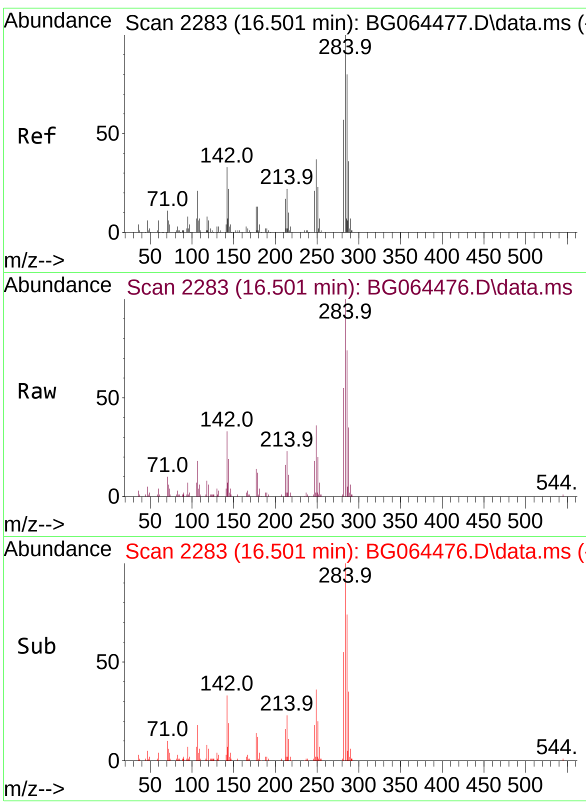
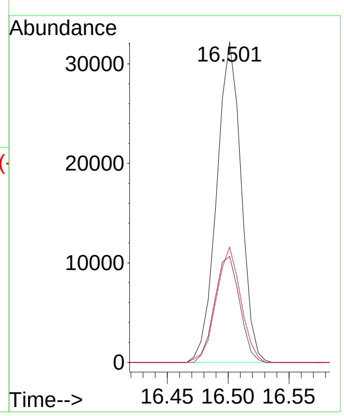



#68
Hexachlorobenzene
Concen: 20.185 ng
RT: 16.501 min Scan# 2283
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:284 Resp: 45002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.1 | 26.2 | 39.2 |
| 249 | 36.0 | 29.4 | 44.0 |



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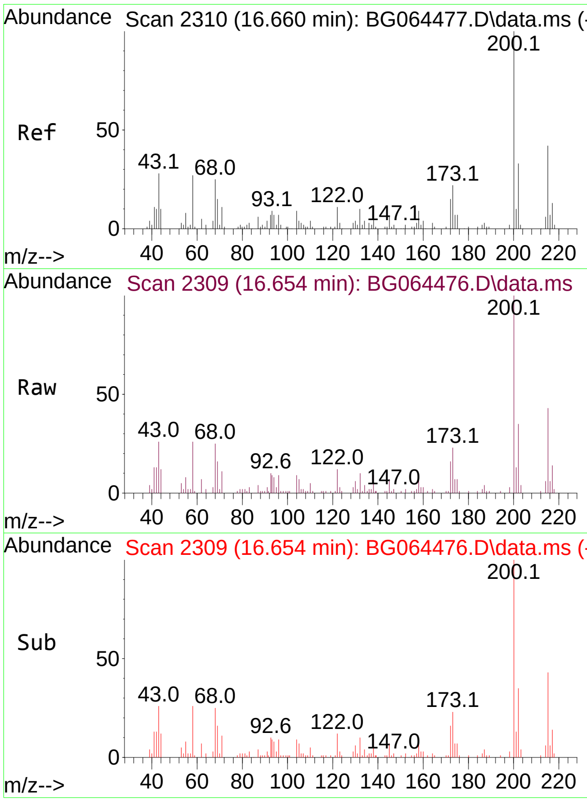
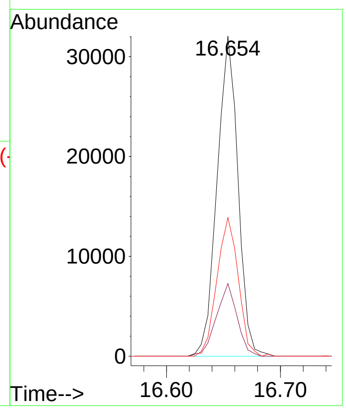



#69
Atrazine
Concen: 20.769 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:200 Resp: 4085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 22.7 | 2.5 | 42.5 |
| 215 | 43.3 | 21.5 | 61.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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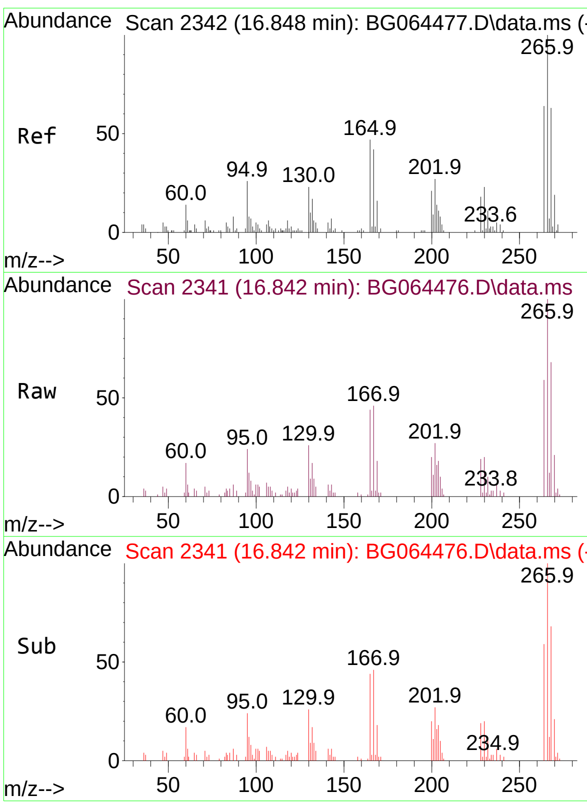
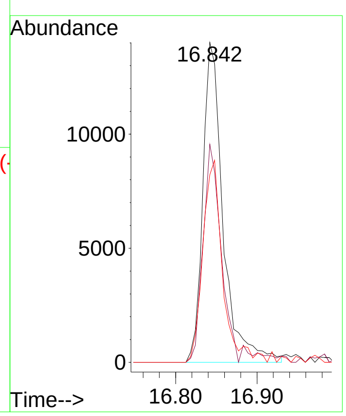



#70
Pentachlorophenol
Concen: 18.593 ng
RT: 16.842 min Scan# 2341
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:266 Resp: 24237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 68.1 | 50.6 | 75.8 |
| 264 | 58.6 | 51.2 | 76.8 |



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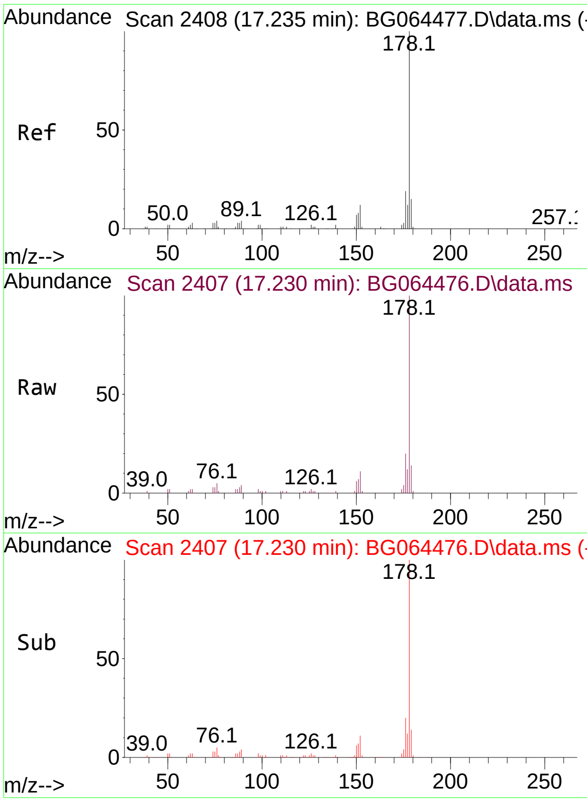


#71
Phenanthrene
Concen: 20.165 ng
RT: 17.230 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:178 Resp: 17459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.2 | 22.8 |
| 179 | 14.1 | 11.8 | 17.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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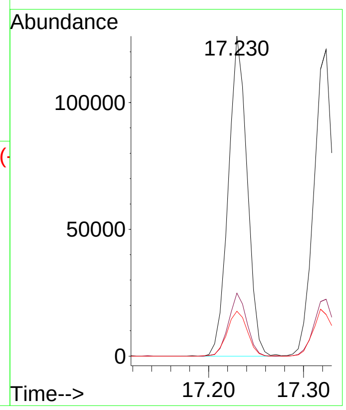


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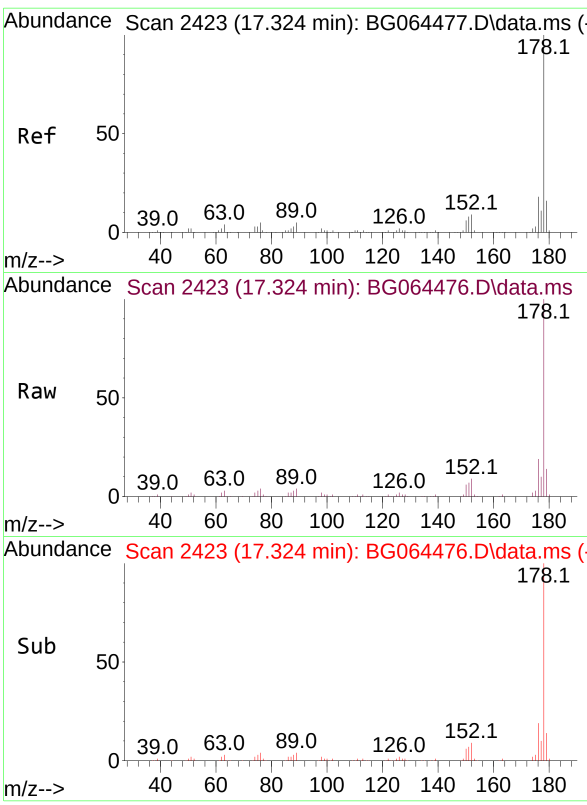
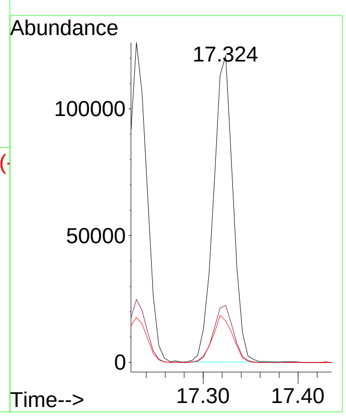
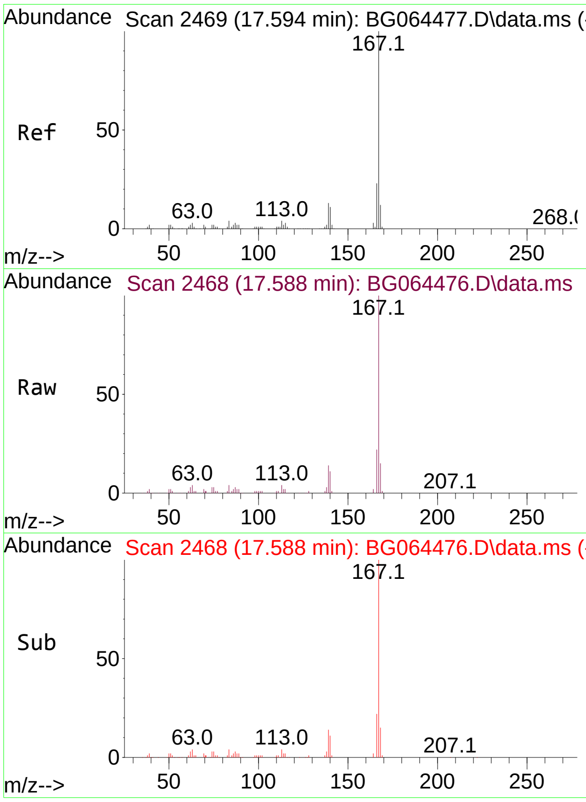



#72
Anthracene
Concen: 19.904 ng
RT: 17.324 min Scan# 2423
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:178 Resp: 172893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 21.8 |
| 179 | 13.6 | 12.5 | 18.7 |

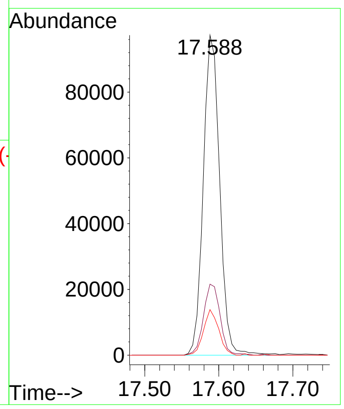





#73
Carbazole
Concen: 19.939 ng
RT: 17.588 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:167 Resp: 14971(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.2 | 18.6 | 27.8 |
| 139 | 14.2 | 10.2 | 15.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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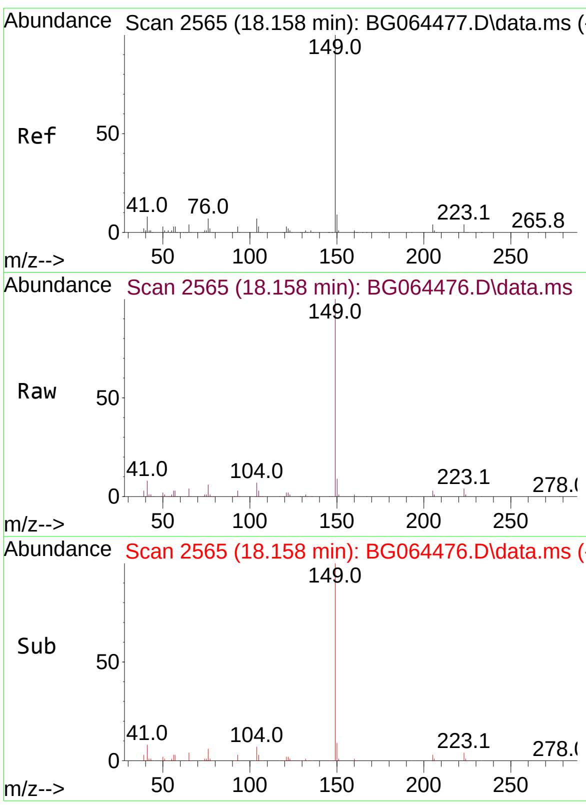
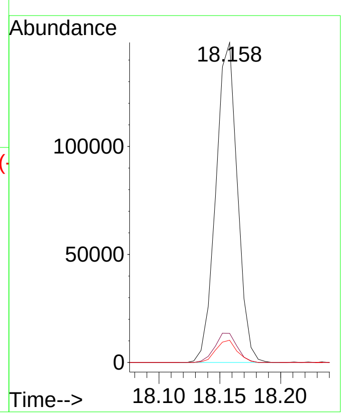



#74
Di-n-butylphthalate
Concen: 19.955 ng
RT: 18.158 min Scan# 2565
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:149 Resp: 182903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.1 | 7.4 | 11.2 |
| 104 | 6.9 | 5.3 | 7.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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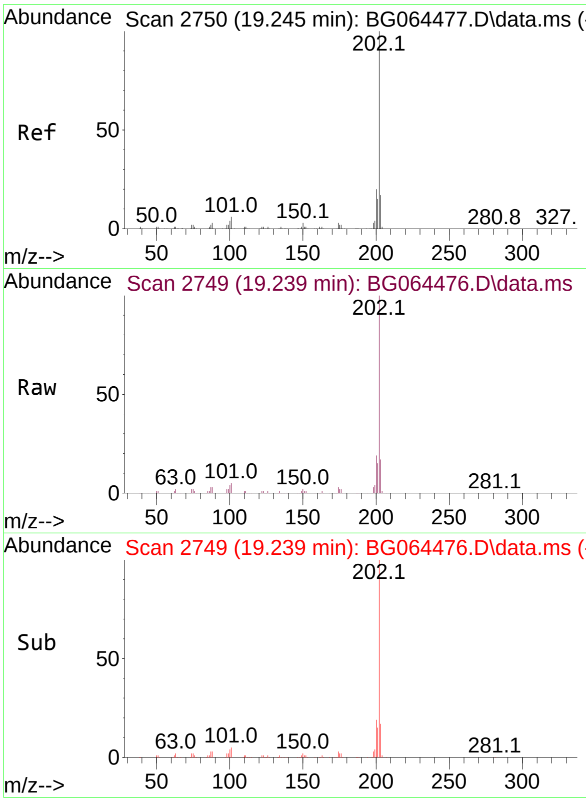
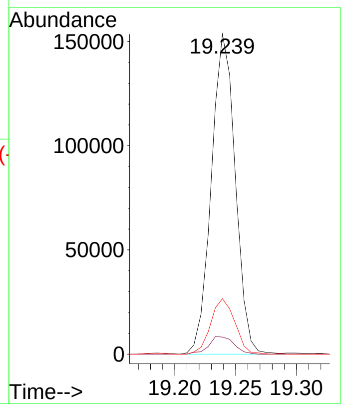
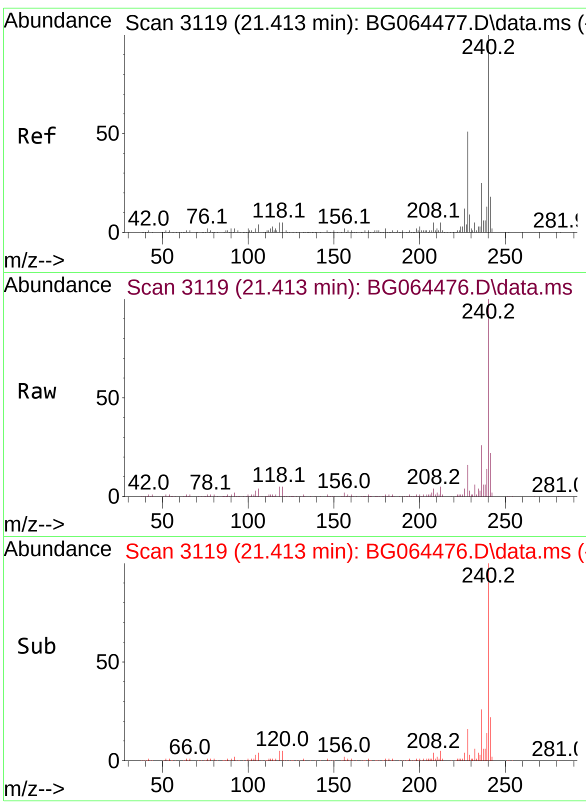



#75
Fluoranthene
Concen: 20.363 ng
RT: 19.239 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:202 Resp: 21063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.3 | 0.0 | 25.7 |
| 203 | 17.3 | 0.0 | 36.6 |

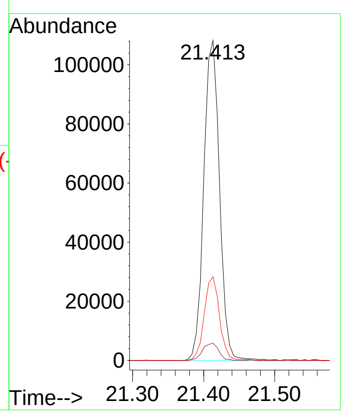



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.413 min Scan# 3119
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:240 Resp: 165934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.4 | 4.3 | 6.5 |
| 236 | 26.1 | 20.4 | 30.6 |



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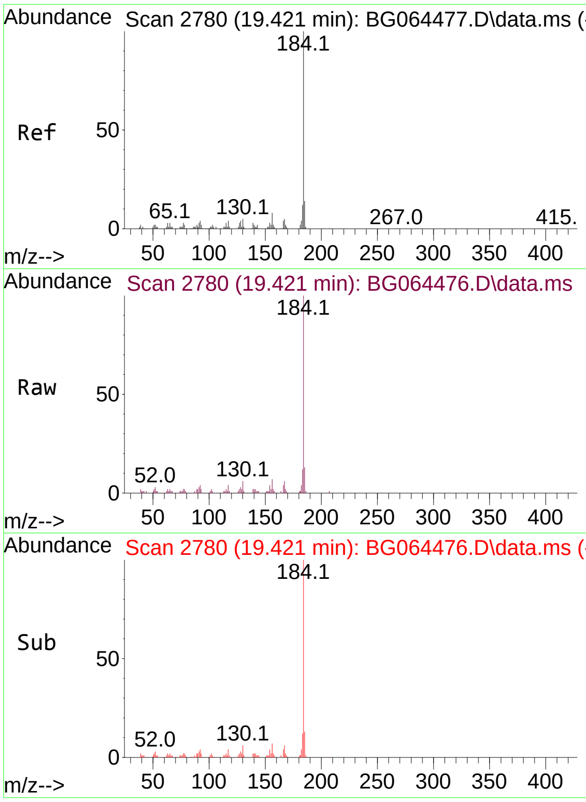
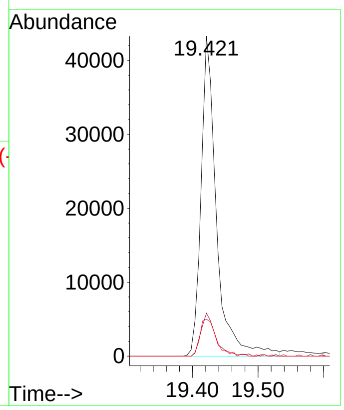



#77
Benzidine
Concen:   17.050 ng
RT:  19.421 min  Scan# 2
Delta R.T.  -0.004 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:184 Resp:   70399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.4 | 10.9 | 16.3 |
| 183 | 11.5 | 9.8 | 14.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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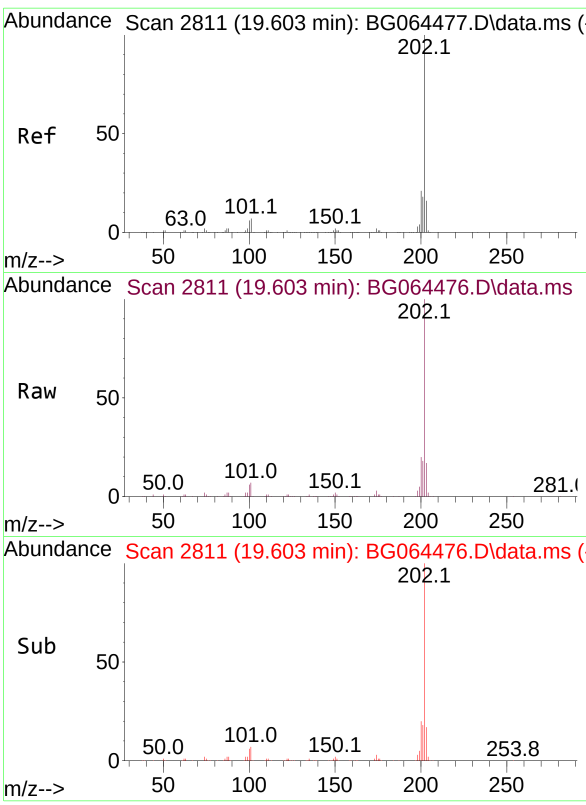
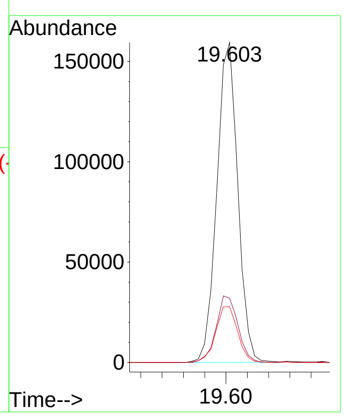



#78
Pyrene
Concen:   20.286 ng
RT:  19.603 min  Scan# 2811
Delta R.T.  0.003 min
Lab File:   BG064476.D
Acq:  2 Oct 2025  11:33

Tgt Ion:202 Resp:  218448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.1 | 17.0 | 25.4 |
| 203 | 17.4 | 13.0 | 19.4 |



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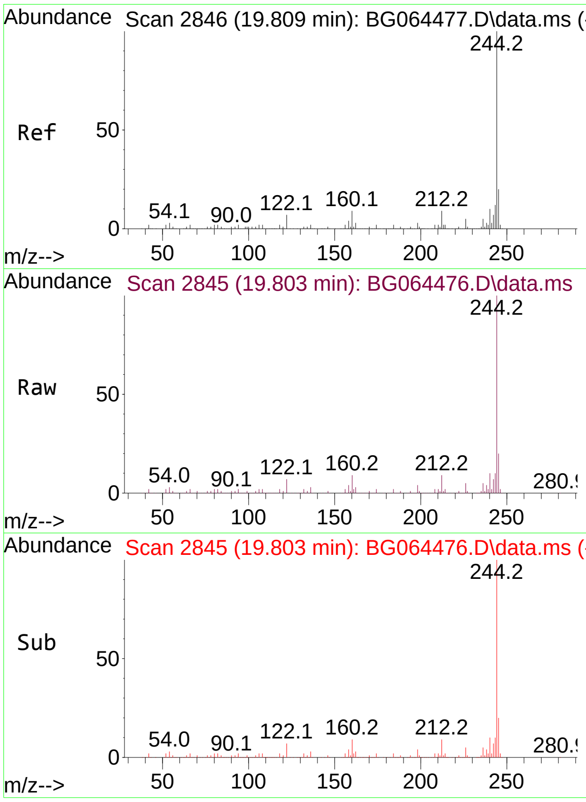


#79
Terphenyl-d14
Concen: 40.467 ng
RT: 19.803 min Scan# 28
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:244 Resp: 354811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.0 | 10.6 |
| 122 | 7.1 | 5.6 | 8.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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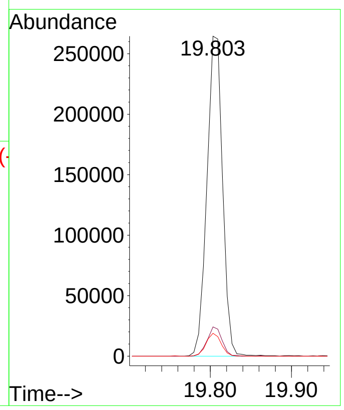
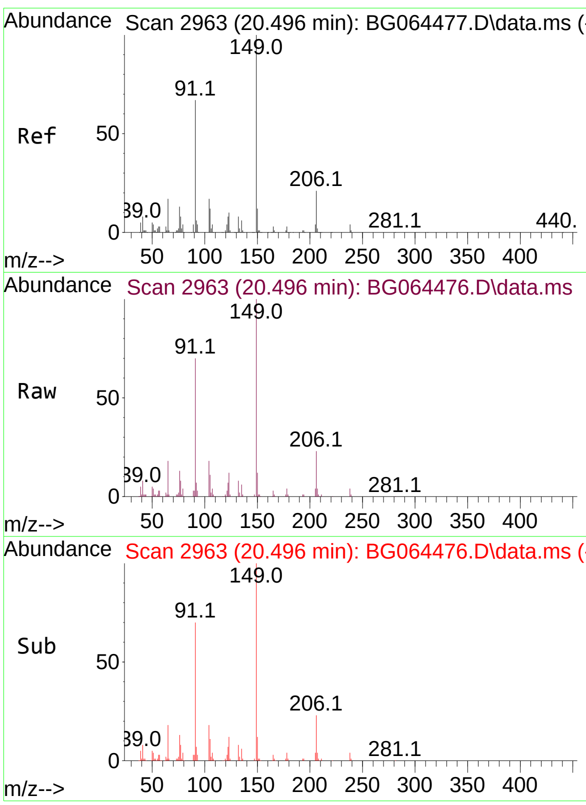
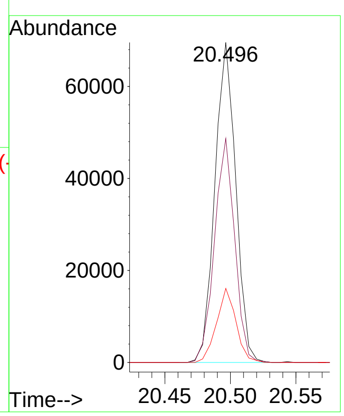


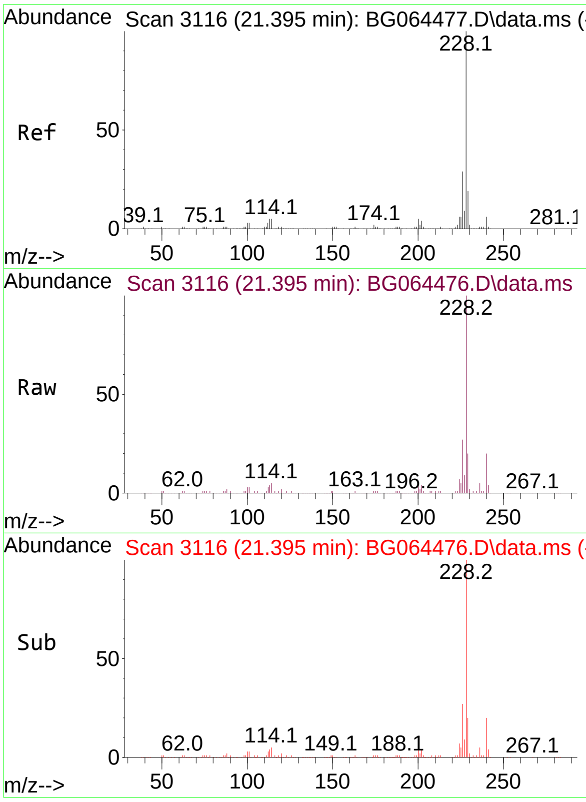




#80
Butylbenzylphthalate
Concen: 20.174 ng
RT: 20.496 min Scan# 2963
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:149 Resp: 77010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 70.0 | 53.7 | 80.5 |
| 206 | 23.1 | 16.6 | 24.8 |






#81
Benzo(a)anthracene
Concen: 20.119 ng
RT: 21.395 min Scan# 31
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

Tgt Ion:228 Resp: 213165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.4 | 22.8 | 34.2 |
| 229 | 20.1 | 15.2 | 22.8 |

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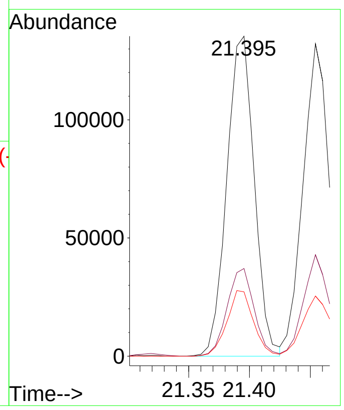


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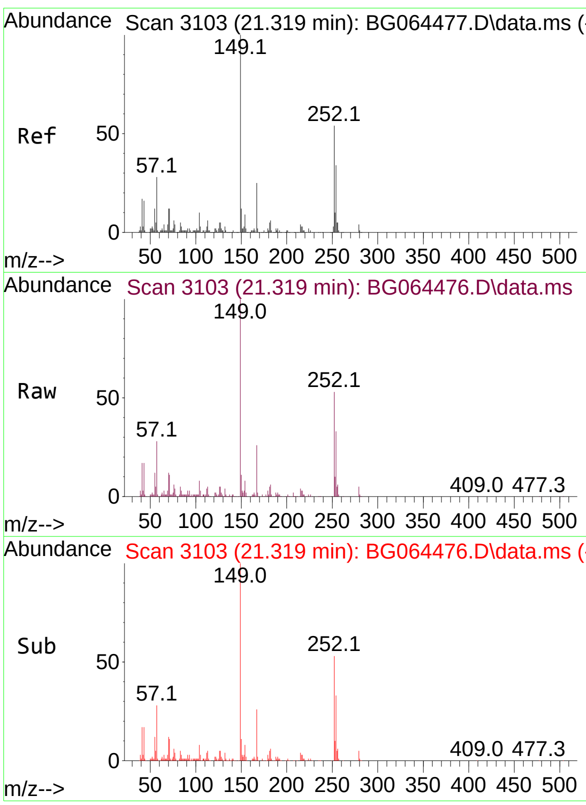
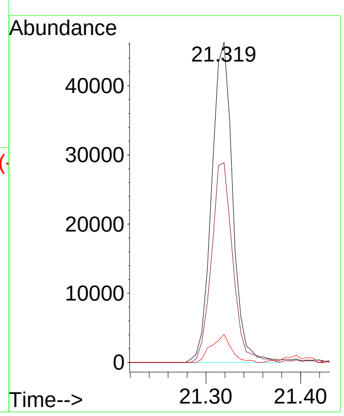
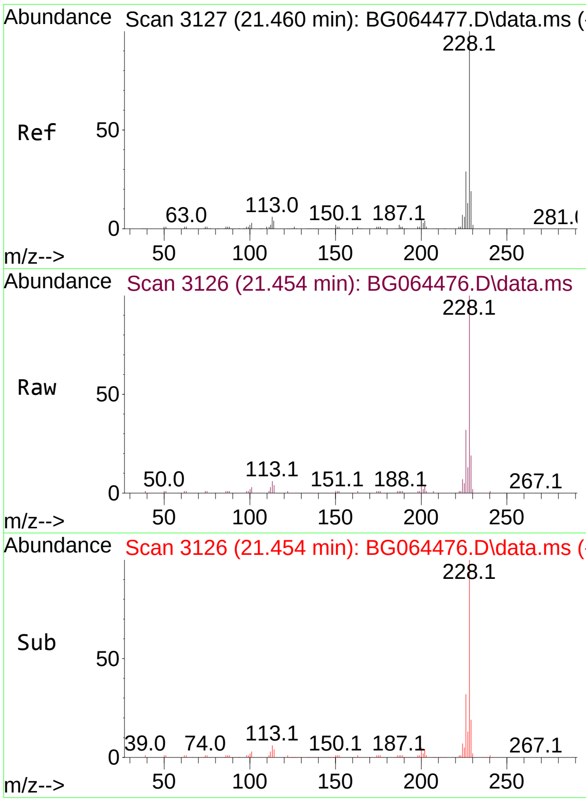



#82
3,3'-Dichlorobenzidine
Concen: 19.958 ng
RT: 21.319 min Scan# 3103
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:252 Resp: 71567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 62.4 | 50.5 | 75.7 |
| 126 | 8.7 | 7.1 | 10.7 |

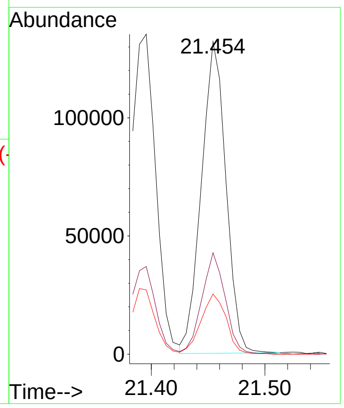





#83
Chrysene
Concen: 19.732 ng
RT: 21.454 min Scan# 31
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:228 Resp: 19826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 22.8 | 34.2 |
| 229 | 19.3 | 15.4 | 23.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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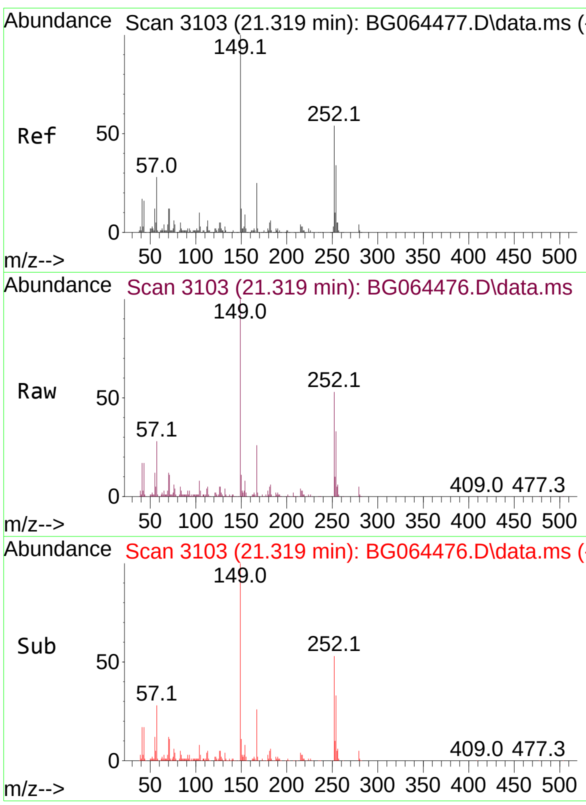
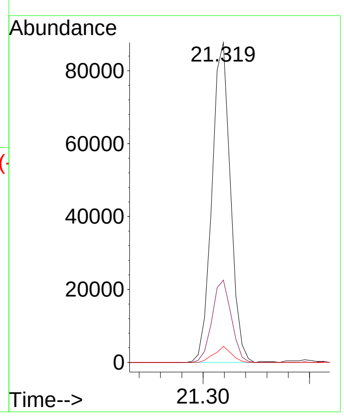



#84
Bis(2-ethylhexyl)phthalate
Concen: 19.731 ng
RT: 21.319 min Scan# 3103
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:149 Resp: 106271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.7 | 19.7 | 29.5 |
| 279 | 5.0 | 3.4 | 5.2 |



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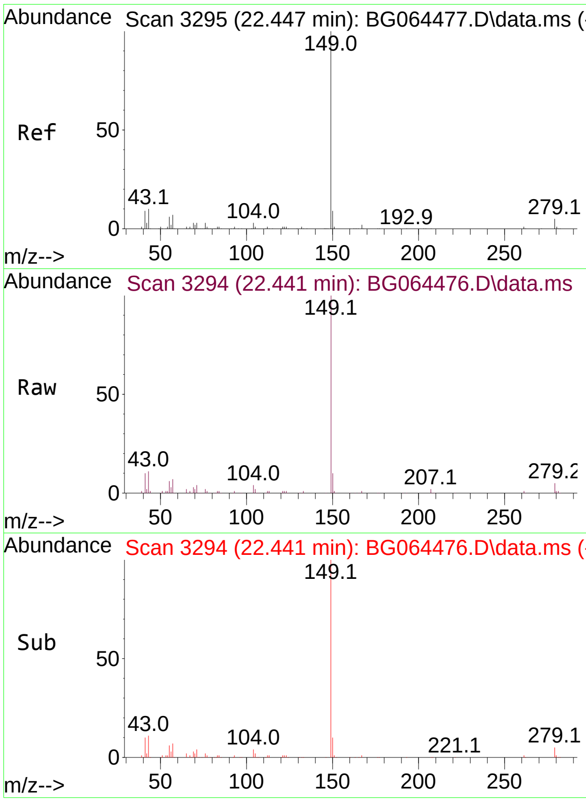


#85
Di-n-octyl phthalate
Concen: 19.247 ng
RT: 22.441 min Scan# 32
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

Tgt Ion:149 Resp: 17422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 10.2 | 7.9 | 11.9 |

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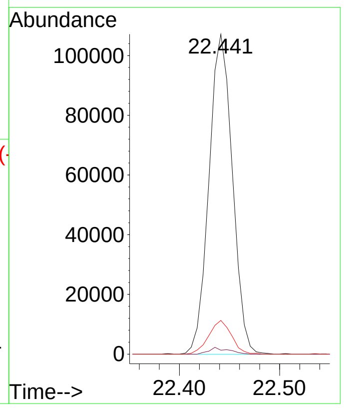


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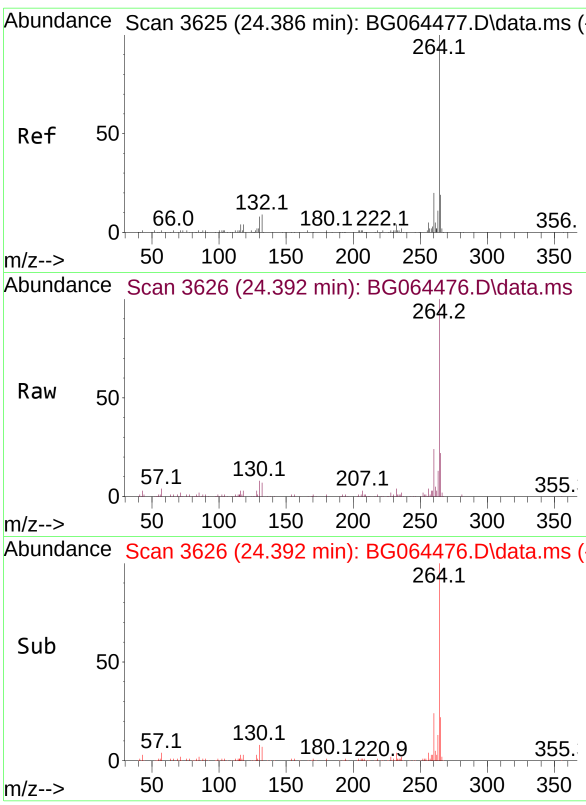
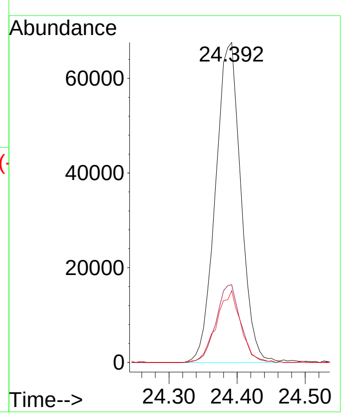
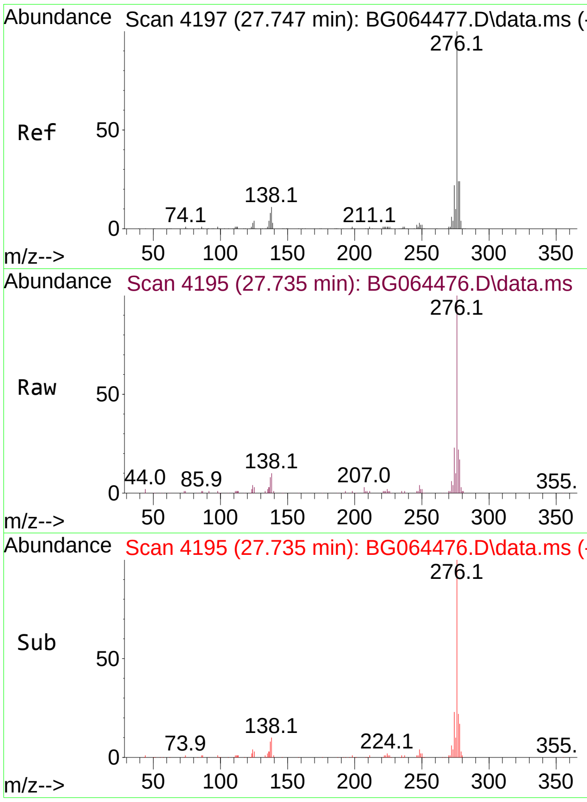



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.392 min Scan# 3626
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:264 Resp: 174482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.3 | 16.2 | 24.4 |
| 265 | 22.4 | 15.0 | 22.4 |

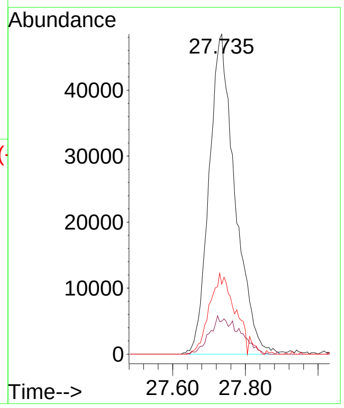





#87
Indeno(1,2,3-cd)pyrene
Concen: 19.796 ng
RT: 27.735 min Scan# 4195
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:276 Resp: 240423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.5 | 10.8 | 16.2 |
| 277 | 24.2 | 20.3 | 30.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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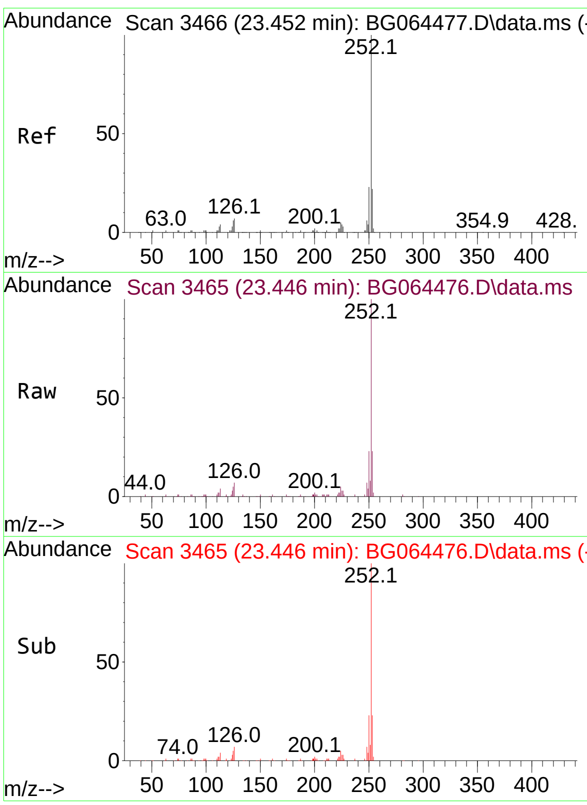
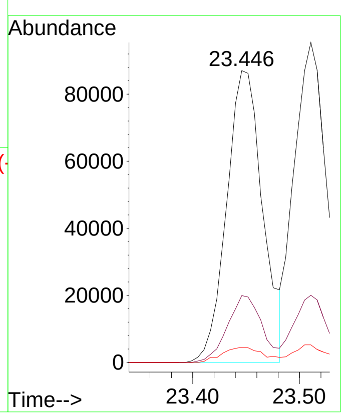



#88
Benzo(b)fluoranthene
Concen: 20.591 ng
RT: 23.446 min Scan# 3465
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:252 Resp: 204393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 17.5 | 26.3 |
| 125 | 5.2 | 4.5 | 6.7 |



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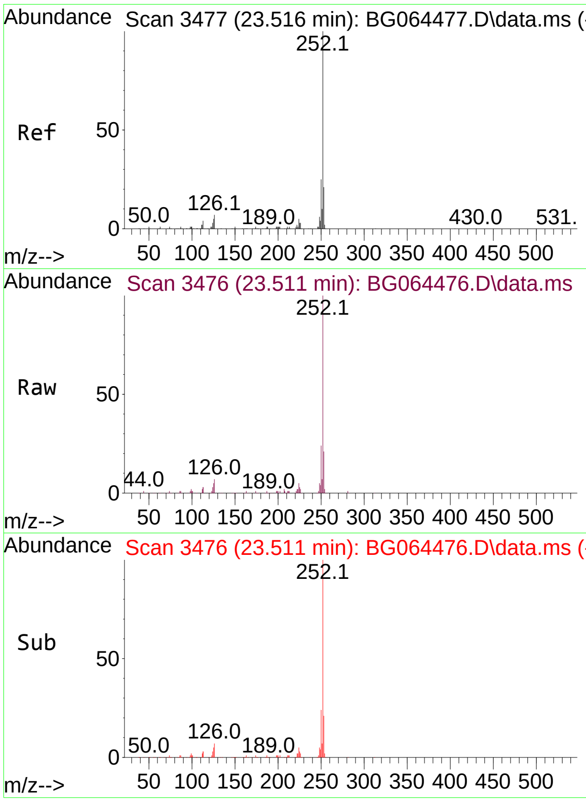
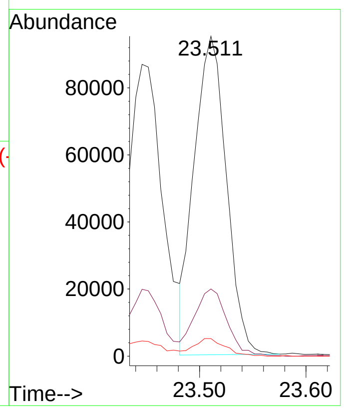



#89
Benzo(k)fluoranthene
Concen: 19.991 ng
RT: 23.511 min Scan# 34
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:252 Resp: 19985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.0 | 17.4 | 26.2 |
| 125 | 5.5 | 4.0 | 6.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

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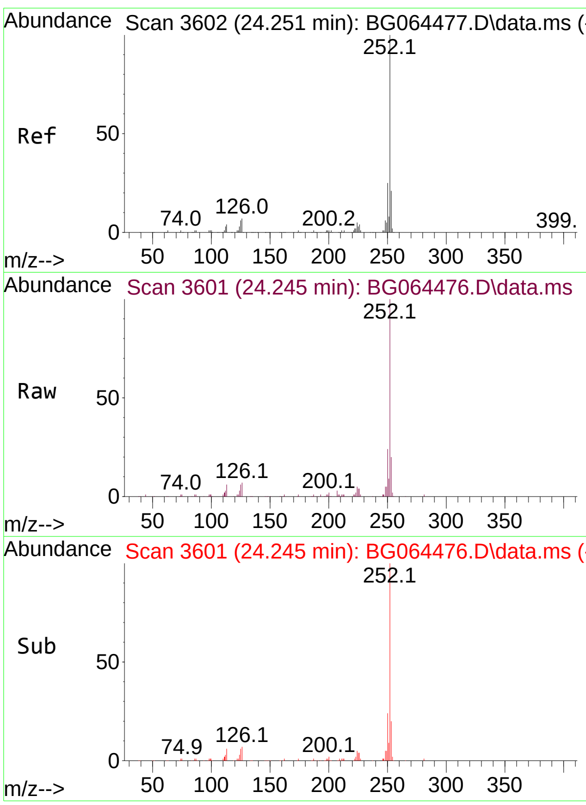
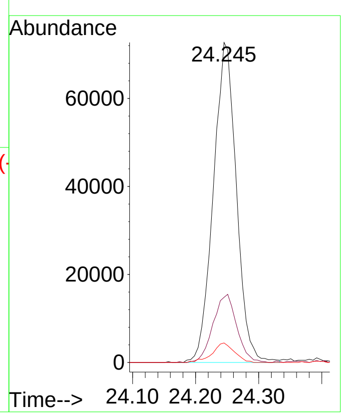
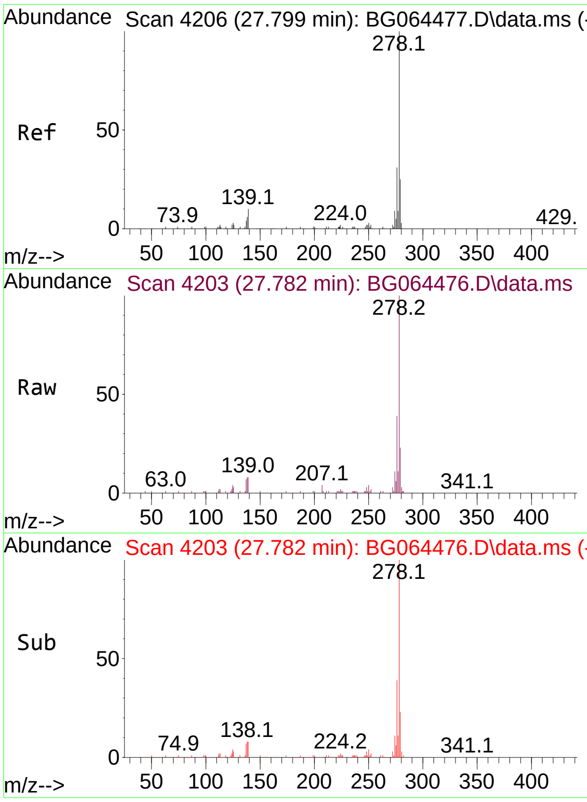



#90
Benzo(a)pyrene
Concen: 20.191 ng
RT: 24.245 min Scan# 3601
Delta R.T. -0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:252 Resp: 184712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.3 | 17.1 | 25.7 |
| 125 | 6.1 | 4.6 | 6.8 |

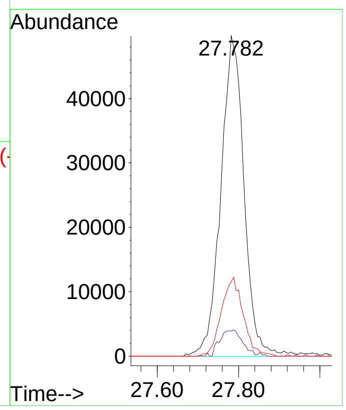





#91
Dibenzo(a,h)anthracene
Concen: 20.134 ng
RT: 27.782 min Scan# 4
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:278 Resp: 19555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 7.9 | 8.2 | 12.2# |
| 279 | 23.3 | 19.6 | 29.4 |



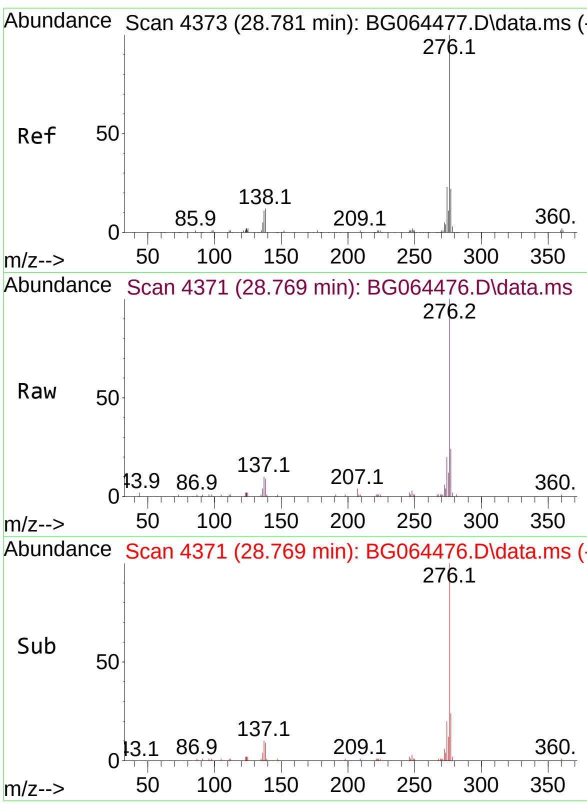

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025
Supervised By :Jagrut Upadhyay

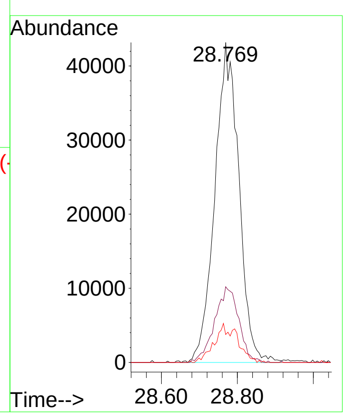
10/03/2025




#92
Benzo(g,h,i)perylene
Concen: 20.108 ng
RT: 28.769 min Scan# 4371
Delta R.T. 0.003 min
Lab File: BG064476.D
Acq: 2 Oct 2025 11:33

Tgt Ion:276 Resp: 189789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.6 | 17.8 | 26.6 |
| 138 | 8.7 | 9.4 | 14.0# |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064477.D
Acq On : 2 Oct 2025 12:14
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025

Quant Time: Oct 02 16:52:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.823 | 152 | 16827 | 20.000 ng | 0.00 |
| 21) Naphthalene-d8 | 10.614 | 136 | 74350 | 20.000 ng | 0.00 |
| 39) Acenaphthene-d10 | 14.450 | 164 | 56405 | 20.000 ng | 0.00 |
| 64) Phenanthrene-d10 | 17.188 | 188 | 137065 | 20.000 ng | 0.00 |
| 76) Chrysene-d12 | 21.413 | 240 | 137806 | 20.000 ng | 0.00 |
| 86) Perylene-d12 | 24.386 | 264 | 147142 | 20.000 ng | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 5.408 | 112 | 80402 | 88.428 ng | 0.00 |
| 7) Phenol-d6 | 7.000 | 99 | 109762 | 89.832 ng | 0.01 |
| 23) Nitrobenzene-d5 | 8.974 | 82 | 117636 | 85.074 ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.937 | 330 | 85878 | 83.995 ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.076 | 172 | 323605 | 84.566 ng | 0.00 |
| 79) Terphenyl-d14 | 19.809 | 244 | 619099 | 85.021 ng | 0.00 |
| **Target Compounds** | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.322 | 88 | 14750 | 41.013 ng | 100 |
| 3) Pyridine | 3.716 | 79 | 41592 | 43.032 ng | 100 |
| 4) n-Nitrosodimethylamine | 3.628 | 42 | 29056 | 41.468 ng | 100 |
| 6) Aniline | 7.153 | 93 | 67996 | 44.118 ng | 100 |
| 8) 2-Chlorophenol | 7.394 | 128 | 48971 | 43.861 ng | 100 |
| 9) Benzaldehyde | 6.965 | 77 | 51397m | 47.387 ng | |
| 10) Phenol | 7.024 | 94 | 56653 | 43.953 ng | 100 |
| 11) bis(2-Chloroethyl)ether | 7.247 | 93 | 38161 | 43.717 ng | 100 |
| 12) 1,3-Dichlorobenzene | 7.711 | 146 | 53245 | 43.595 ng | 100 |
| 13) 1,4-Dichlorobenzene | 7.858 | 146 | 53223 | 43.419 ng | 100 |
| 14) 1,2-Dichlorobenzene | 8.175 | 146 | 51602 | 42.713 ng | 100 |
| 15) Benzyl Alcohol | 8.058 | 79 | 48695 | 43.275 ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.346 | 45 | 60702 | 43.142 ng | 100 |
| 17) 2-Methylphenol | 8.269 | 107 | 40881 | 43.800 ng | 100 |
| 18) Hexachloroethane | 8.904 | 117 | 20312 | 41.981 ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 8.628 | 70 | 36888 | 45.142 ng | 100 |
| 20) 3+4-Methylphenols | 8.593 | 107 | 57201 | 43.917 ng | 100 |
| 22) Acetophenone | 8.640 | 105 | 76751 | 42.634 ng | 100 |
| 24) Nitrobenzene | 9.021 | 77 | 58730 | 42.592 ng | 100 |
| 25) Isophorone | 9.539 | 82 | 107231 | 42.808 ng | 100 |
| 26) 2-Nitrophenol | 9.727 | 139 | 28524 | 41.564 ng | 100 |
| 27) 2,4-Dimethylphenol | 9.791 | 122 | 44394 | 42.353 ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 10.026 | 93 | 55697 | 43.620 ng | 100 |
| 29) 2,4-Dichlorophenol | 10.261 | 162 | 50964 | 42.046 ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 10.479 | 180 | 56079 | 42.432 ng | 100 |
| 31) Naphthalene | 10.661 | 128 | 164638 | 43.002 ng | 100 |
| 32) Benzoic acid | 9.944 | 122 | 34057m | 42.319 ng | |
| 33) 4-Chloroaniline | 10.767 | 127 | 62035 | 42.224 ng | 100 |
| 34) Hexachlorobutadiene | 10.949 | 225 | 47047 | 41.566 ng | 100 |
| 35) Caprolactam | 11.542 | 113 | 17062 | 41.118 ng | 100 |
| 36) 4-Chloro-3-methylphenol | 11.900 | 107 | 62176 | 42.181 ng | 100 |
| 37) 2-Methylnaphthalene | 12.271 | 142 | 125298 | 42.634 ng | 100 |
| 38) 1-Methylnaphthalene | 12.488 | 142 | 122645 | 41.851 ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.641 | 216 | 79864 | 43.852 ng | 100 |
| 41) Hexachlorocyclopentadiene | 12.623 | 237 | 40946 | 42.981 ng | 100 |
| 43) 2,4,6-Trichlorophenol | 12.882 | 196 | 50247 | 43.159 ng | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064477.D
Acq On : 2 Oct 2025 12:14
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025

Quant Time: Oct 02 16:52:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.958 | 196 | 54781 | 42.147 | ng | 100 |
| 46) 1,1'-Biphenyl | 13.287 | 154 | 171549 | 42.286 | ng | 100 |
| 47) 2-Chloronaphthalene | 13.328 | 162 | 130095 | 42.951 | ng | 100 |
| 48) 2-Nitroaniline | 13.528 | 65 | 44764 | 43.302 | ng | 100 |
| 49) Acenaphthylene | 14.168 | 152 | 192196 | 42.745 | ng | 100 |
| 50) Dimethylphthalate | 13.910 | 163 | 183253 | 41.482 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 14.027 | 165 | 38023 | 41.318 | ng | 100 |
| 52) Acenaphthene | 14.515 | 154 | 130718 | 41.846 | ng | 100 |
| 53) 3-Nitroaniline | 14.356 | 138 | 36025 | 42.448 | ng | 100 |
| 54) 2,4-Dinitrophenol | 14.562 | 184 | 23359 | 35.006 | ng | 100 |
| 55) Dibenzofuran | 14.850 | 168 | 215338 | 41.749 | ng | 100 |
| 56) 4-Nitrophenol | 14.668 | 139 | 29383 | 43.974 | ng | 100 |
| 57) 2,4-Dinitrotoluene | 14.815 | 165 | 59462 | 42.268 | ng | 100 |
| 58) Fluorene | 15.496 | 166 | 180574 | 42.112 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.079 | 232 | 57000 | 42.971 | ng | 100 |
| 60) Diethylphthalate | 15.273 | 149 | 195149 | 41.179 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 15.496 | 204 | 97895 | 41.818 | ng | 100 |
| 62) 4-Nitroaniline | 15.520 | 138 | 37694 | 42.613 | ng | 100 |
| 63) Azobenzene | 15.784 | 77 | 151875 | 41.381 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 15.579 | 198 | 39733 | 41.634 | ng | 100 |
| 66) n-Nitrosodiphenylamine | 15.708 | 169 | 155849 | 42.580 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 16.383 | 248 | 69462 | 43.066 | ng | 100 |
| 68) Hexachlorobenzene | 16.501 | 284 | 79010 | 42.809 | ng | 100 |
| 69) Atrazine | 16.660 | 200 | 68458 | 42.039 | ng | 100 |
| 70) Pentachlorophenol | 16.848 | 266 | 46456 | 43.049 | ng | 100 |
| 71) Phenanthrene | 17.235 | 178 | 304441 | 42.473 | ng | 100 |
| 72) Anthracene | 17.324 | 178 | 309798 | 43.082 | ng | 100 |
| 73) Carbazole | 17.594 | 167 | 270505 | 43.520 | ng | 100 |
| 74) Di-n-butylphthalate | 18.158 | 149 | 325874 | 42.948 | ng | 100 |
| 75) Fluoranthene | 19.245 | 202 | 364596 | 42.577 | ng | 100 |
| 77) Benzidine | 19.421 | 184 | 178853 | 52.157 | ng | 100 |
| 78) Pyrene | 19.603 | 202 | 383571 | 42.890 | ng | 100 |
| 80) Butylbenzylphthalate | 20.496 | 149 | 136961 | 43.202 | ng | 100 |
| 81) Benzo(a)anthracene | 21.395 | 228 | 373009 | 42.392 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 21.319 | 252 | 126107 | 42.345 | ng | 100 |
| 83) Chrysene | 21.460 | 228 | 357557 | 42.849 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 21.319 | 149 | 190838 | 42.664 | ng | 100 |
| 85) Di-n-octyl phthalate | 22.447 | 149 | 317830 | 42.277 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 27.747 | 276 | 439448 | 42.906 | ng | 100 |
| 88) Benzo(b)fluoranthene | 23.452 | 252 | 356780 | 42.621 | ng | 100 |
| 89) Benzo(k)fluoranthene | 23.516 | 252 | 362948 | 43.050 | ng | 100 |
| 90) Benzo(a)pyrene | 24.251 | 252 | 330197 | 42.800 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 27.799 | 278 | 350192 | 42.755 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 28.781 | 276 | 339180 | 42.613 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064477.D
Acq On : 2 Oct 2025 12:14
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 02 16:52:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

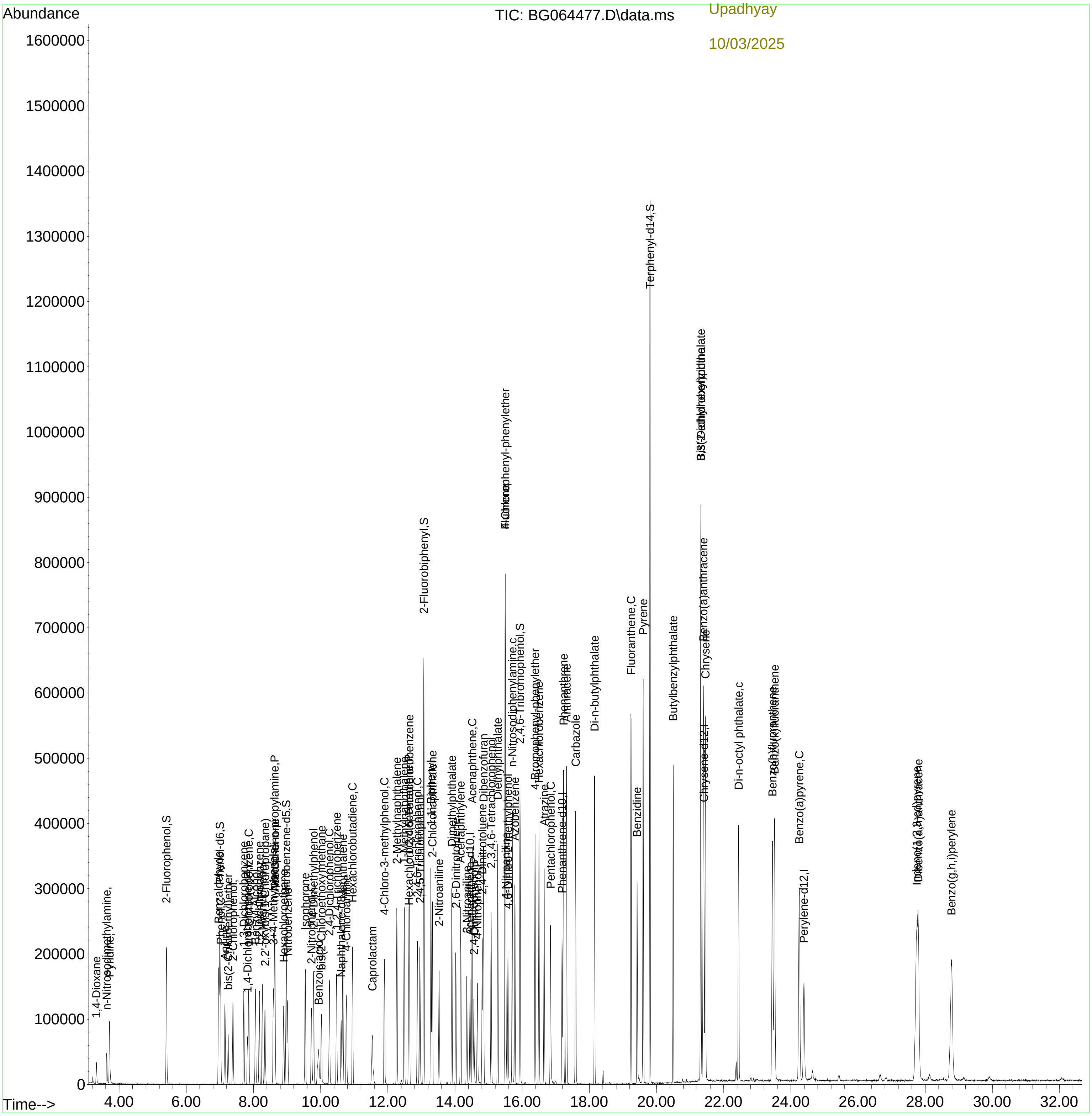
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025

Supervised By :Jagrut Upadhyay

10/03/2025



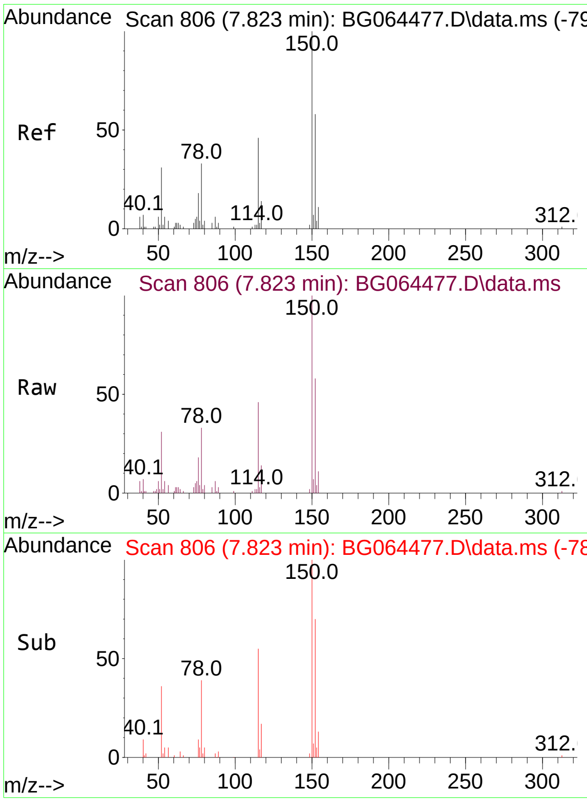
ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

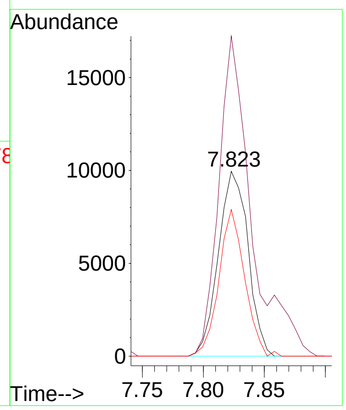
10/03/2025

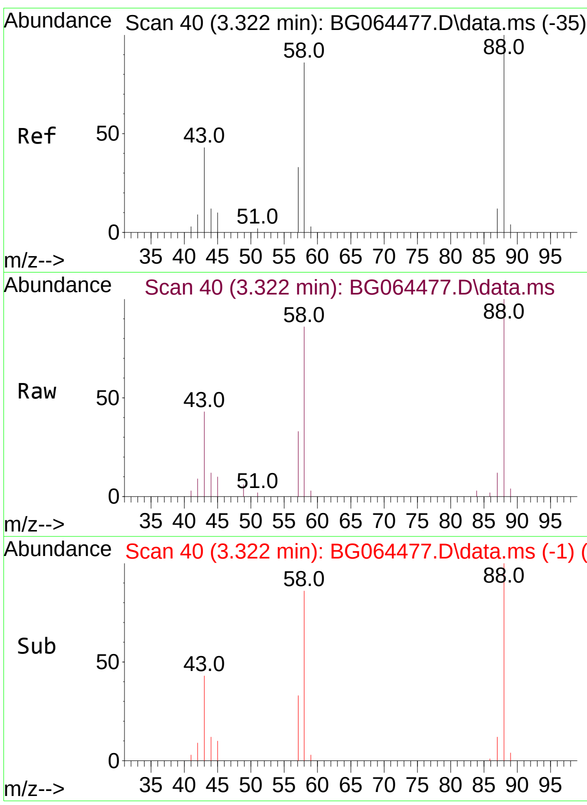



#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:   7.823 min   Scan# 80
Delta R.T.   0.003 min
Lab File:   BG064477.D
Acq:  2 Oct 2025   12:14

Tgt Ion:152 Resp:   1682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 173.2 | 138.6 | 207.8 |
| 115 | 79.3 | 63.4 | 95.2 |

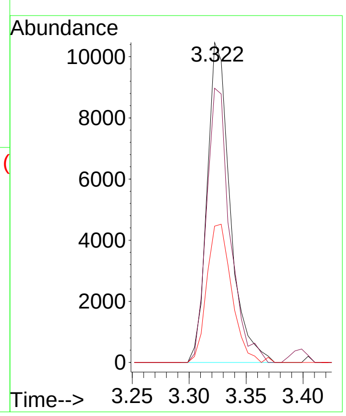


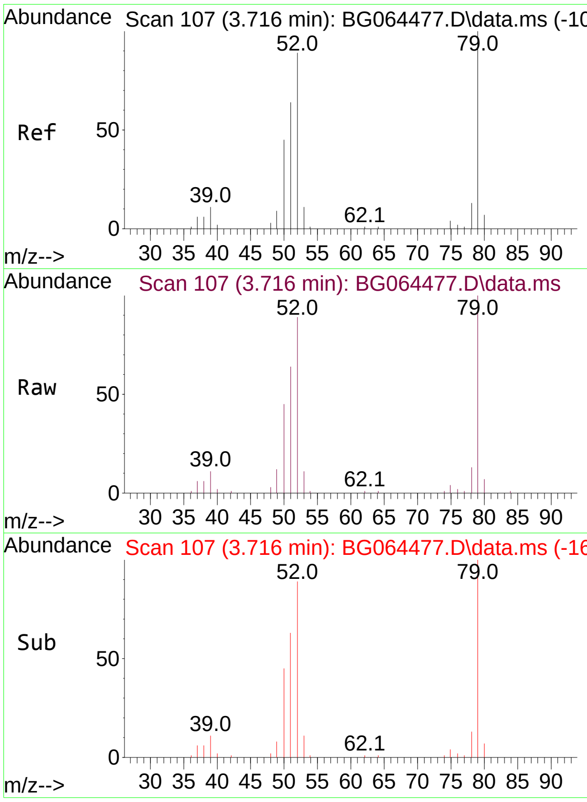

#2
1,4-Dioxane
Concen:   41.013 ng
RT:   3.322 min   Scan# 40
Delta R.T.   0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025   12:14

Tgt Ion: 88 Resp:   14750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 87.2 | 69.8 | 104.6 |
| 43 | 46.7 | 37.4 | 56.0 |



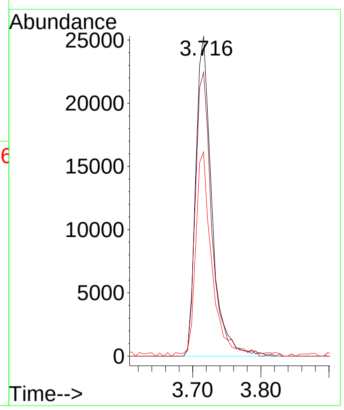
ICAL Form




#3
Pyridine
Concen: 43.032 ng
RT: 3.716 min Scan# 10
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 79 Resp: 4159

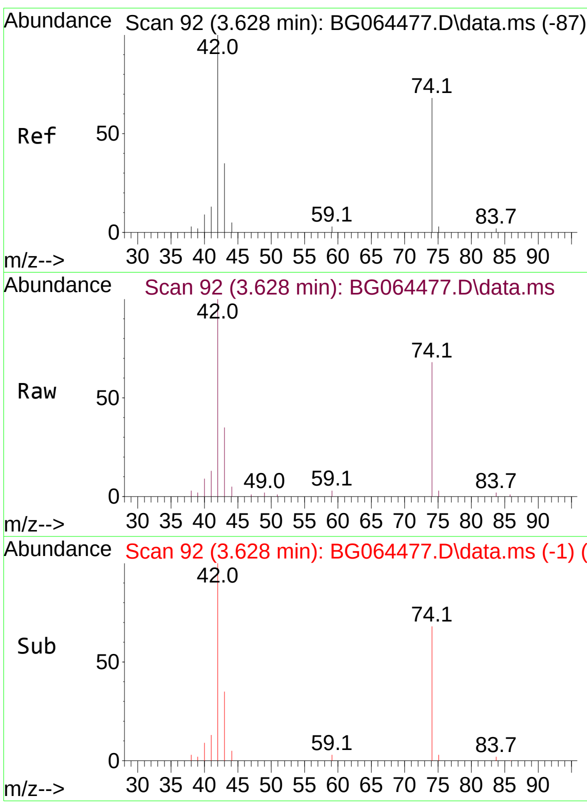
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 88.7 | 71.0 | 106.4 |
| 51 | 63.8 | 51.0 | 76.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

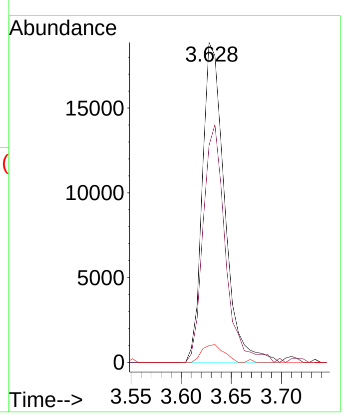
10/03/2025




#4
n-Nitrosodimethylamine
Concen: 41.468 ng
RT: 3.628 min Scan# 92
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 42 Resp: 29056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 67.8 | 54.2 | 81.4 |
| 44 | 5.2 | 4.2 | 6.2 |



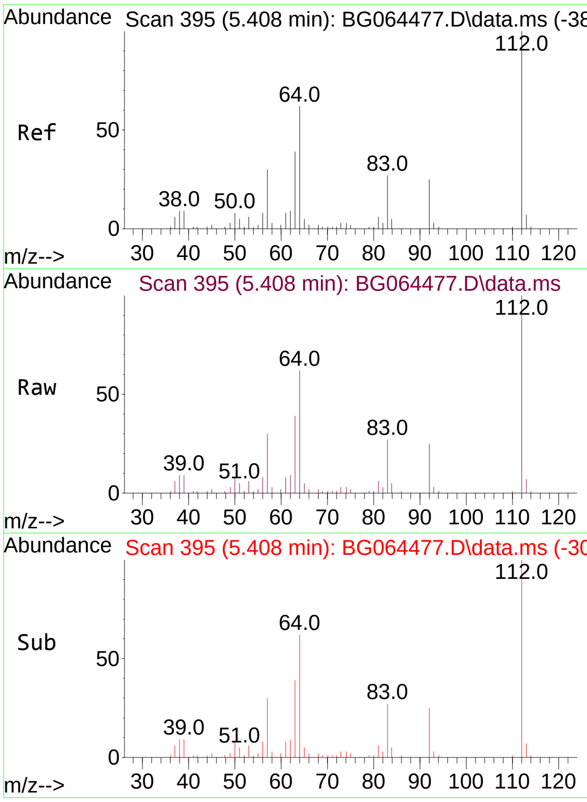
ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

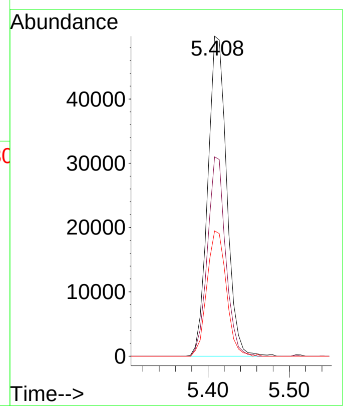
10/03/2025

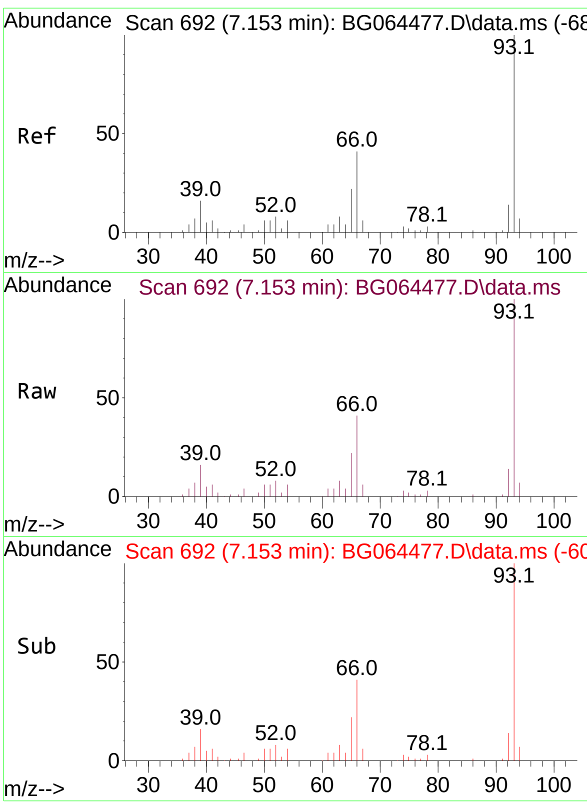



#5
2-Fluorophenol
Concen:   88.428 ng
RT:   5.408 min   Scan# 39
Delta R.T.   0.002 min
Lab File:    BG064477.D
Acq:  2 Oct 2025   12:14

Tgt Ion:112 Resp:   8040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 62.3 | 49.8 | 74.8 |
| 63 | 39.1 | 31.3 | 46.9 |

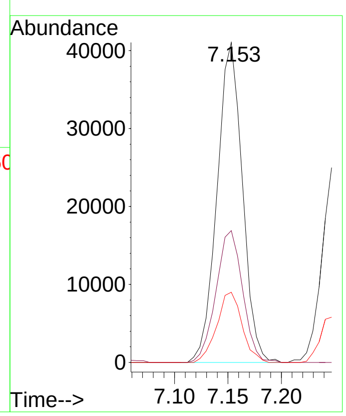



#6
Aniline
Concen:   44.118 ng
RT:   7.153 min   Scan# 692
Delta R.T.   0.008 min
Lab File:    BG064477.D
Acq:  2 Oct 2025   12:14

Tgt Ion: 93 Resp:    67996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 41.2 | 33.0 | 49.4 |
| 65 | 21.9 | 17.5 | 26.3 |

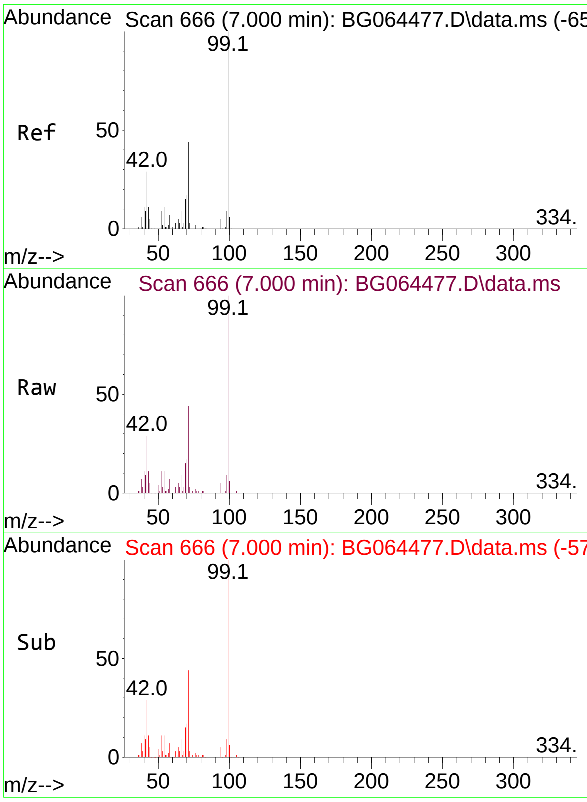


**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

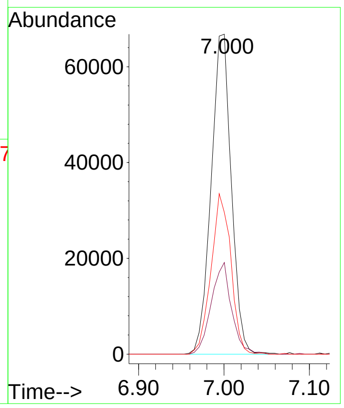
10/03/2025

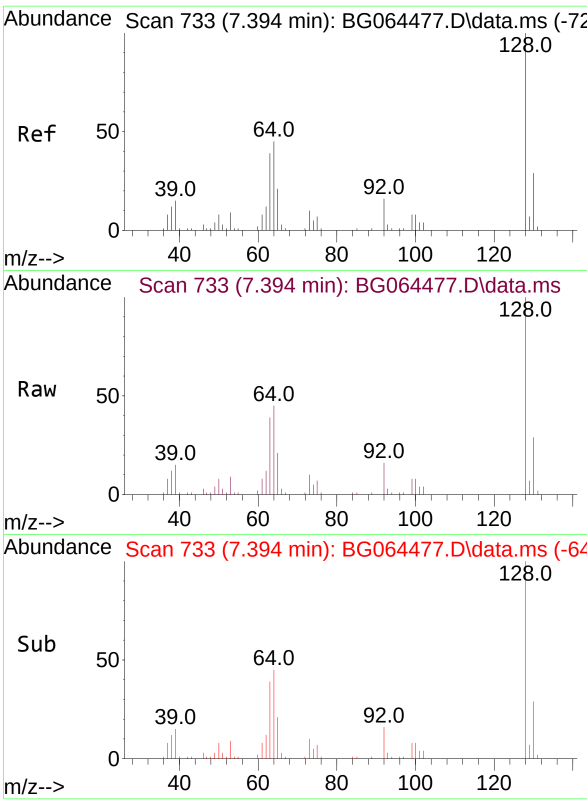



#7
Phenol-d6
Concen: 89.832 ng
RT: 7.000 min Scan# 66
Delta R.T. 0.014 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 99 Resp: 10976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 28.6 | 22.9 | 34.3 |
| 71 | 44.3 | 35.4 | 53.2 |

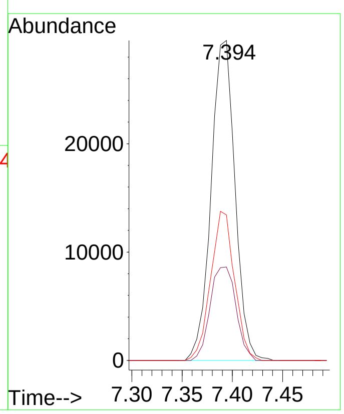


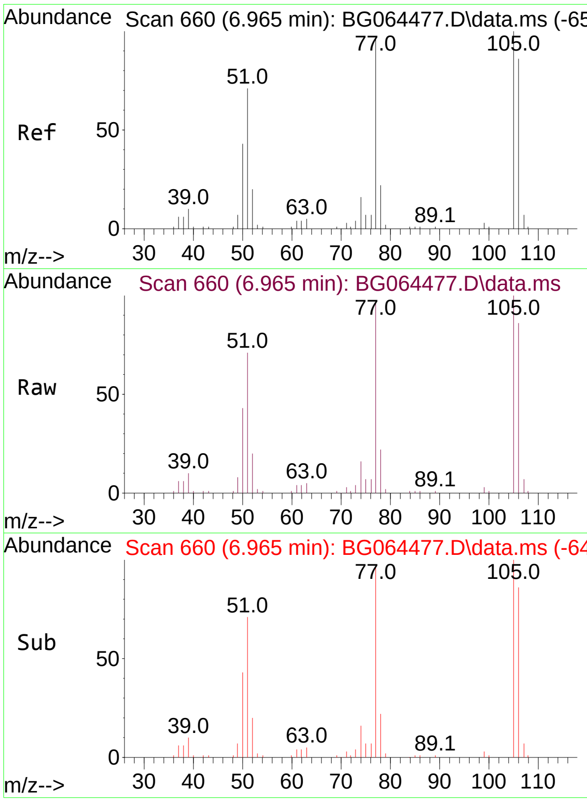

#8
2-Chlorophenol
Concen: 43.861 ng
RT: 7.394 min Scan# 733
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:128 Resp: 48971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 29.2 | 9.2 | 49.2 |
| 64 | 45.5 | 25.5 | 65.5 |



ICAL Form




#9
Benzaldehyde
Concen:   47.387 ng  m
RT:   6.965 min  Scan# 66
Delta R.T.  0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

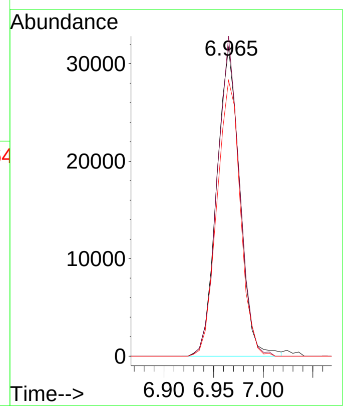
Tgt Ion: 77 Resp:   5139

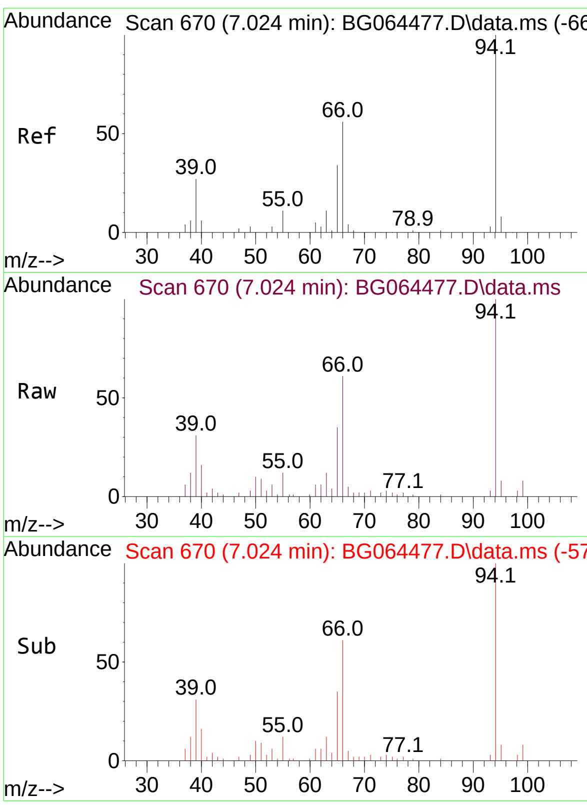
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 103.7 | 83.7 | 123.7 |
| 106 | 89.4 | 69.4 | 109.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

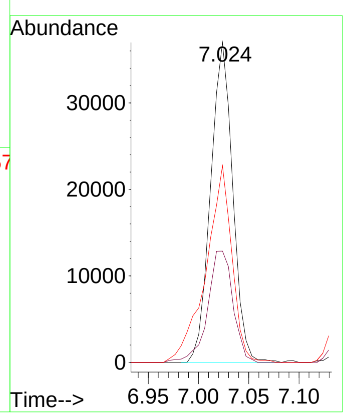


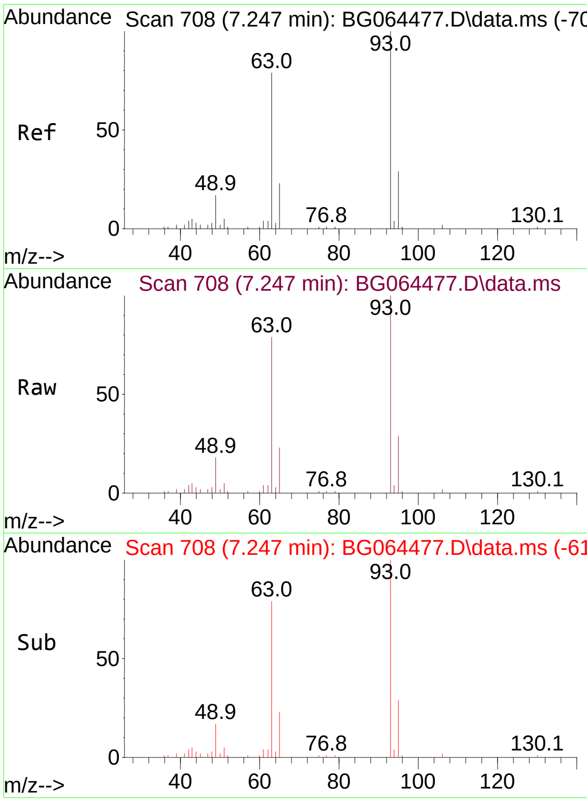

#10
Phenol
Concen:   43.953 ng
RT:   7.024 min  Scan# 670
Delta R.T.  0.008 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion: 94 Resp:   56653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 34.8 | 14.8 | 54.8 |
| 66 | 61.4 | 41.4 | 81.4 |



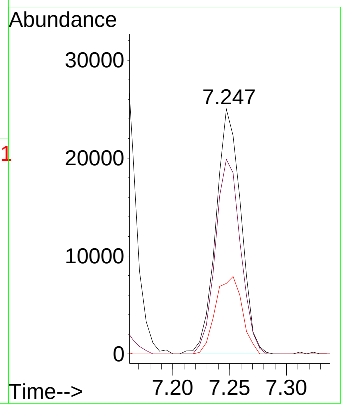
ICAL Form




#11
bis(2-Chloroethyl)ether
Concen: 43.717 ng
RT: 7.247 min Scan# 70
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 93 Resp: 38161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 79.5 | 59.5 | 99.5 |
| 95 | 28.8 | 8.8 | 48.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
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Supervised By :Jagrut Upadhyay

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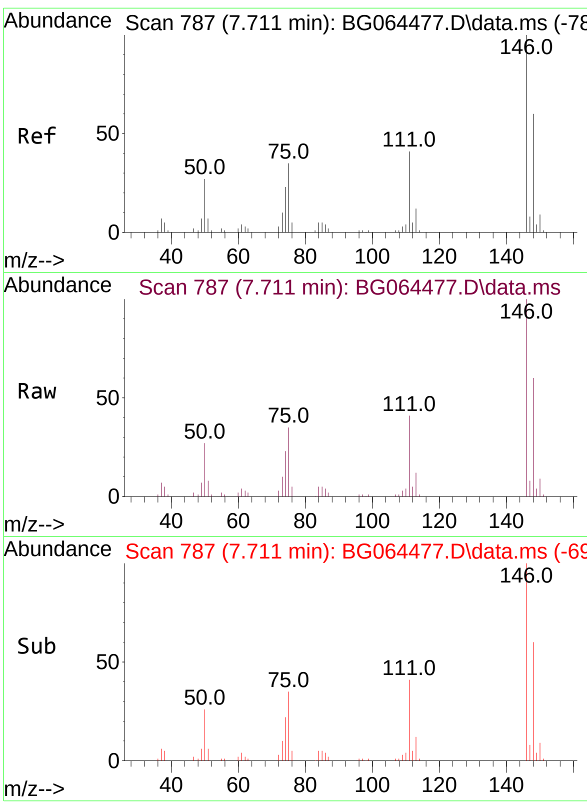
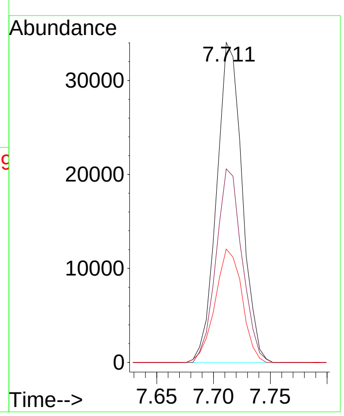



#12
1,3-Dichlorobenzene
Concen: 43.595 ng
RT: 7.711 min Scan# 787
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:146 Resp: 53245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 60.5 | 48.4 | 72.6 |
| 75 | 35.4 | 28.3 | 42.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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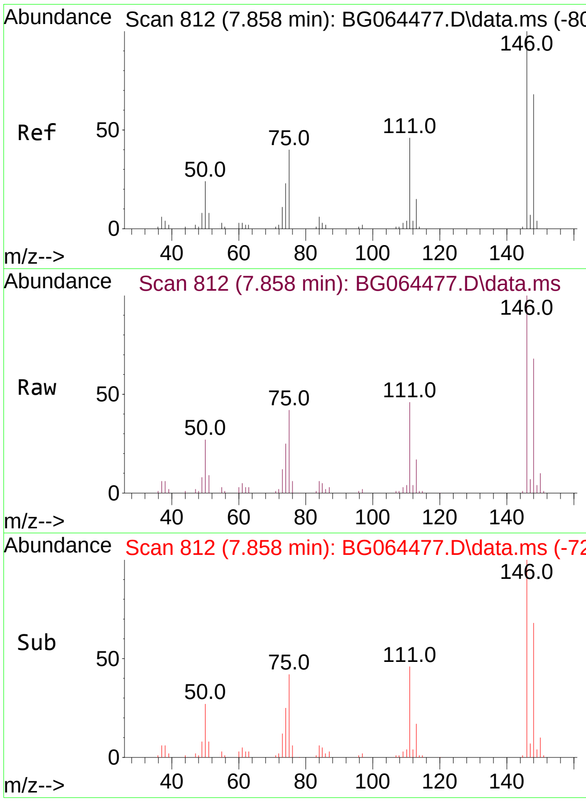
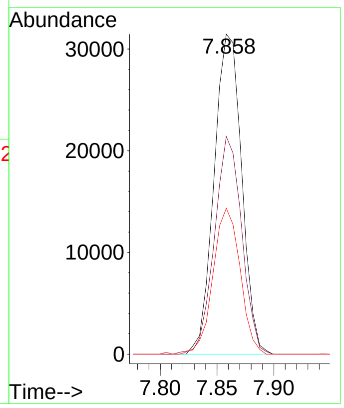
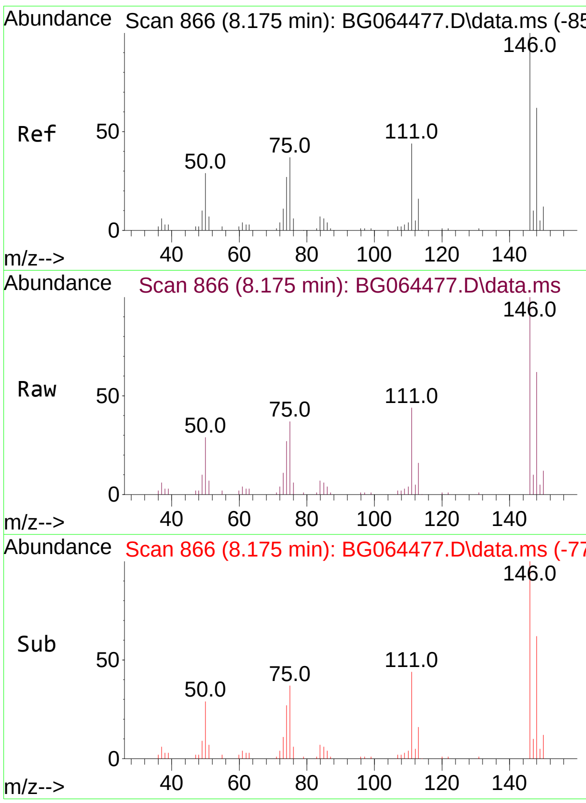



#13
1,4-Dichlorobenzene
Concen: 43.419 ng
RT: 7.858 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:146 Resp: 5322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 68.0 | 54.4 | 81.6 |
| 111 | 45.6 | 36.5 | 54.7 |

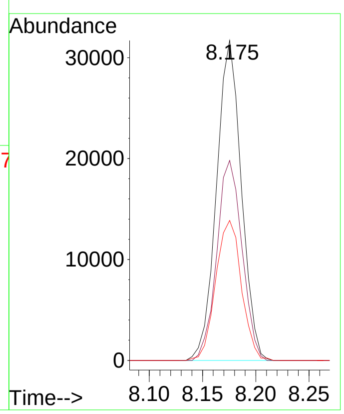



#14
1,2-Dichlorobenzene
Concen: 42.713 ng
RT: 8.175 min Scan# 866
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:146 Resp: 51602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.5 | 50.0 | 75.0 |
| 111 | 43.7 | 35.0 | 52.4 |



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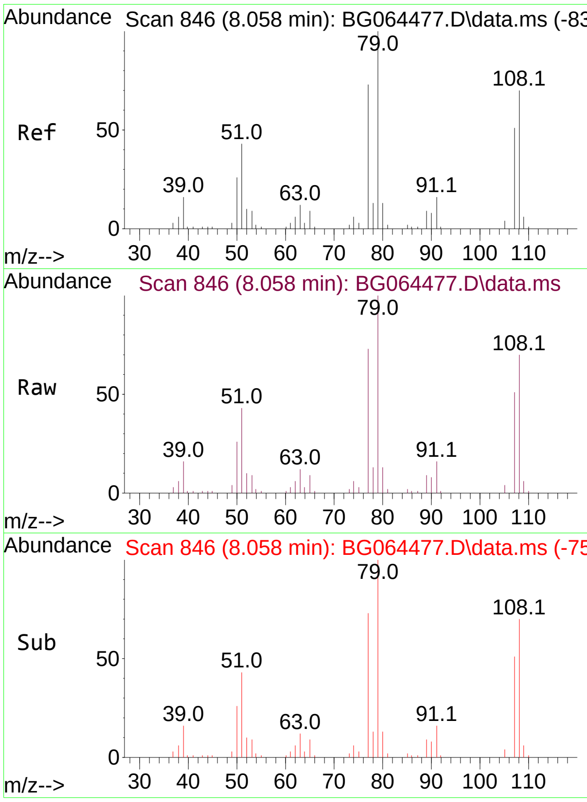
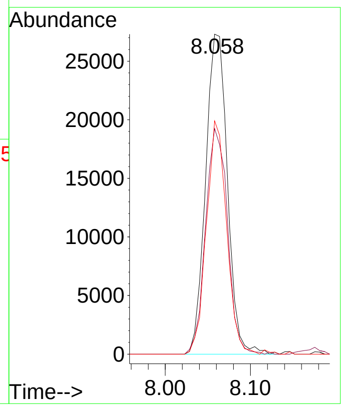



#15
Benzyl Alcohol
Concen: 43.275 ng
RT: 8.058 min Scan# 84
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 79 Resp: 4869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 70.5 | 56.4 | 84.6 |
| 77 | 72.9 | 58.3 | 87.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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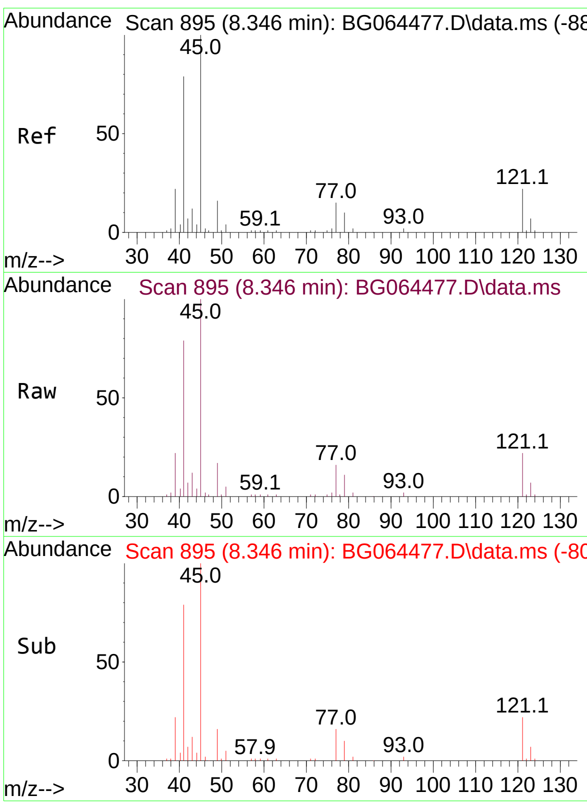
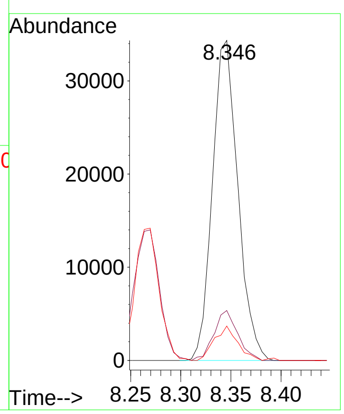
10/03/2025

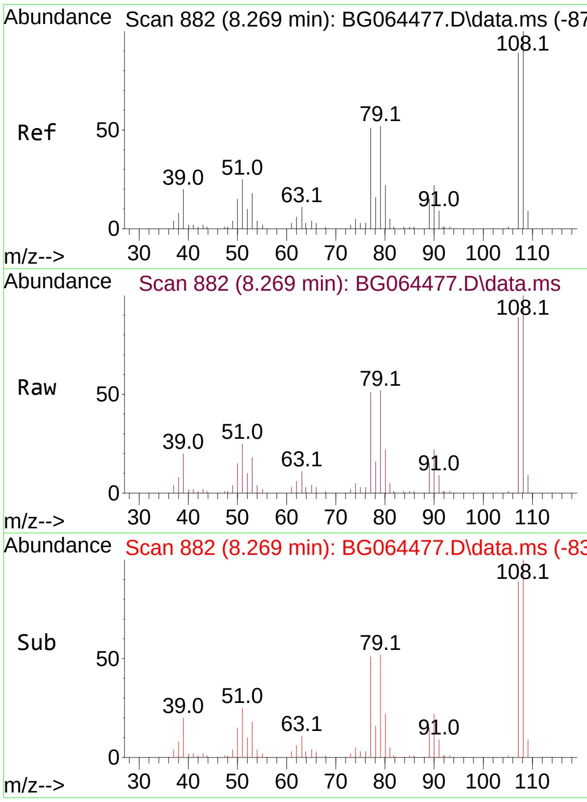



#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.142 ng
RT: 8.346 min Scan# 895
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 45 Resp: 60702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 15.6 | 0.0 | 35.6 |
| 79 | 10.7 | 0.0 | 30.7 |






#17
2-Methylphenol
Concen: 43.800 ng
RT: 8.269 min Scan# 88
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:107 Resp: 4088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.9 | 90.3 | 135.5 |
| 77 | 57.5 | 46.0 | 69.0 |
| 79 | 58.2 | 46.6 | 69.8 |

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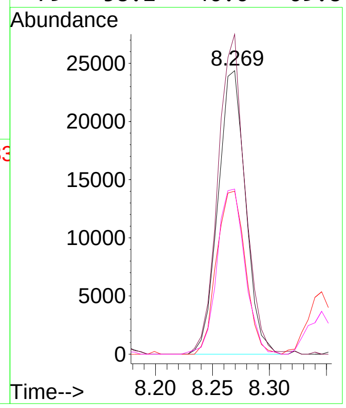
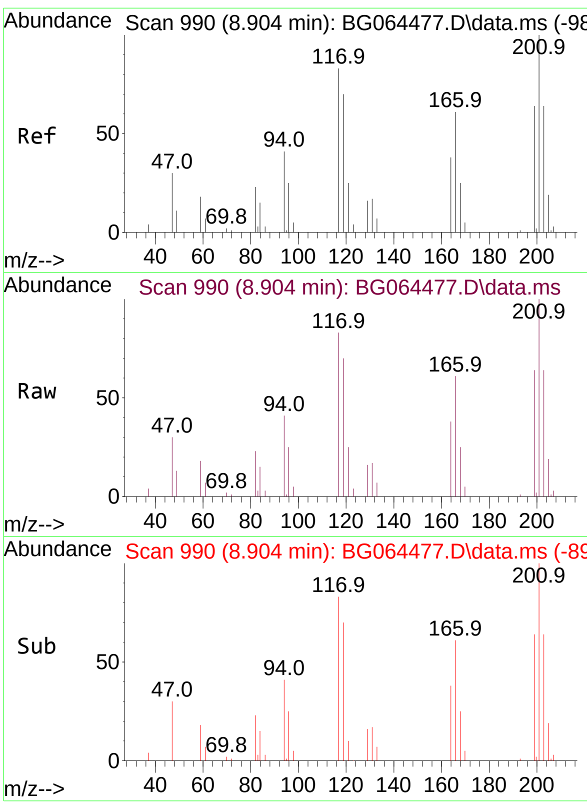
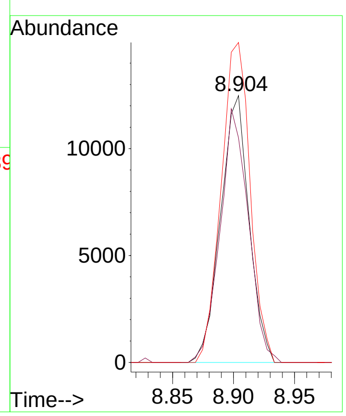


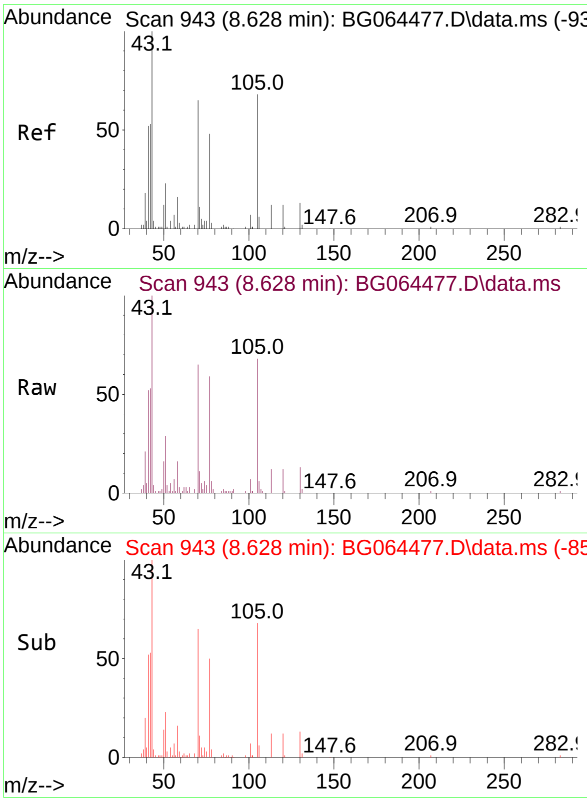




#18
Hexachloroethane
Concen: 41.981 ng
RT: 8.904 min Scan# 990
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:117 Resp: 20312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 84.2 | 67.4 | 101.0 |
| 201 | 119.9 | 95.9 | 143.9 |

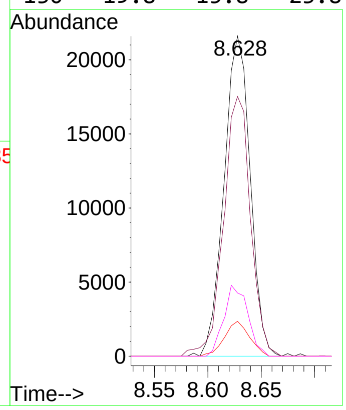





#19
n-Nitroso-di-n-propylamine
Concen: 45.142 ng
RT: 8.628 min Scan# 94
Delta R.T. 0.014 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 70 Resp: 36888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 81.1 | 64.9 | 97.3 |
| 101 | 10.9 | 8.7 | 13.1 |
| 130 | 19.8 | 15.8 | 23.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
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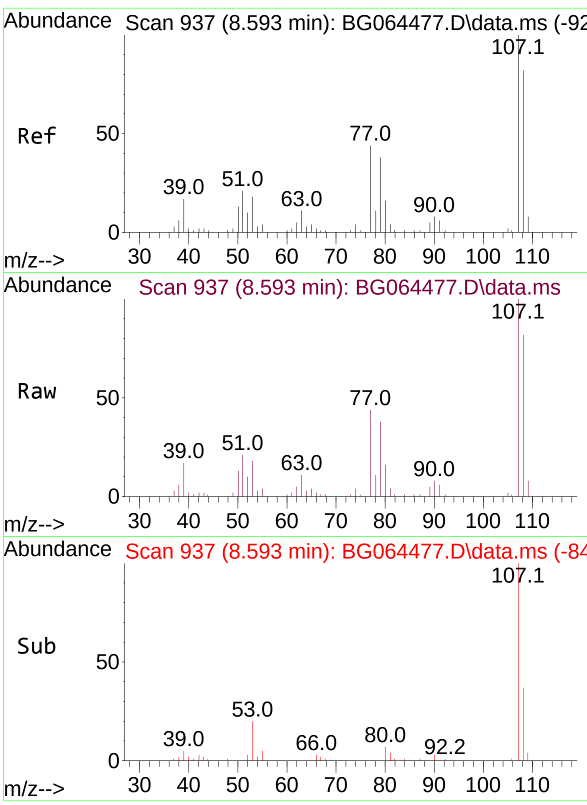
Reviewed By :Rahul
Chavli
10/03/2025
Supervised By :Jagrut
Upadhyay

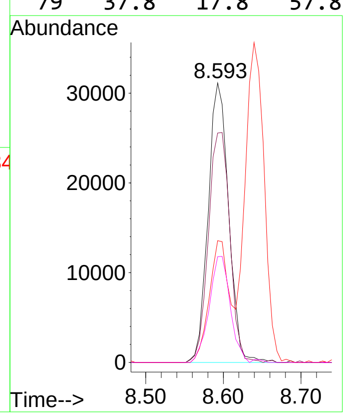
10/03/2025




#20
3+4-Methylphenols
Concen: 43.917 ng
RT: 8.593 min Scan# 937
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:107 Resp: 57201

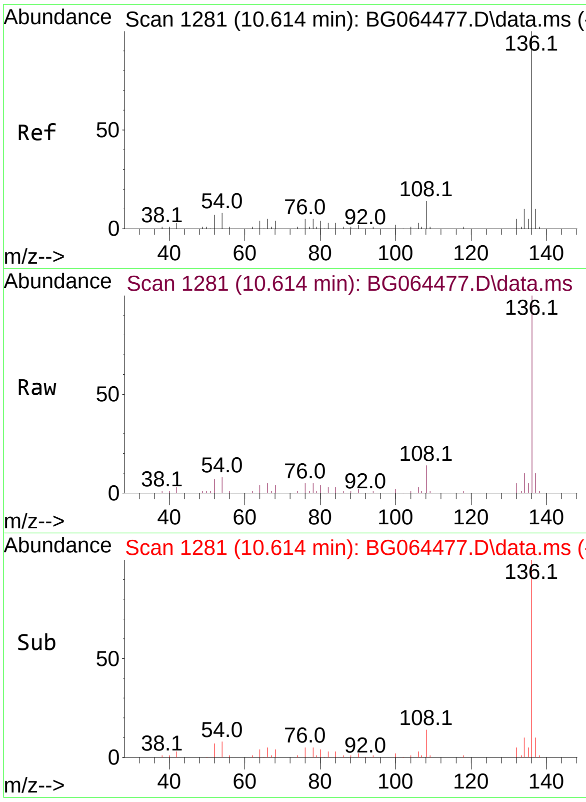
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 82.1 | 62.1 | 102.1 |
| 77 | 43.5 | 23.5 | 63.5 |
| 79 | 37.8 | 17.8 | 57.8 |



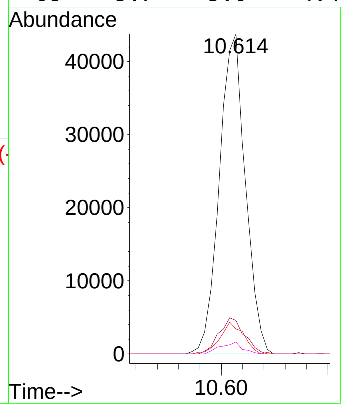
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

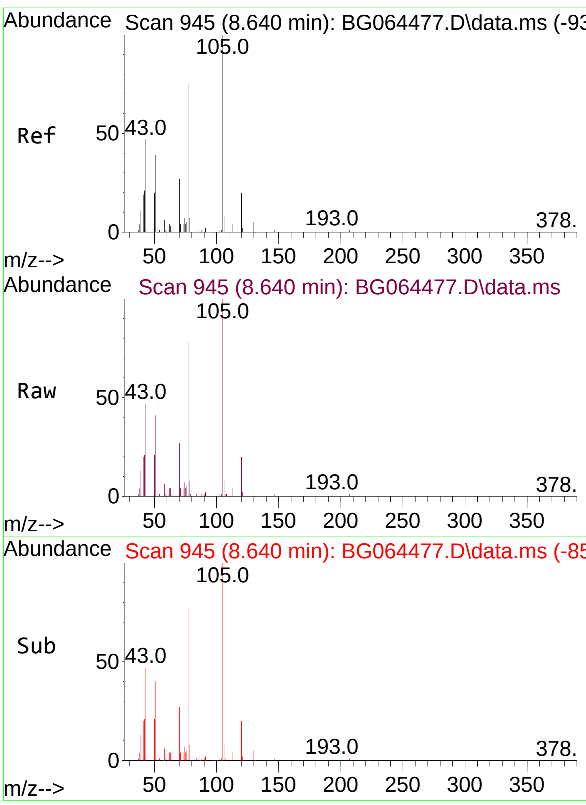
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

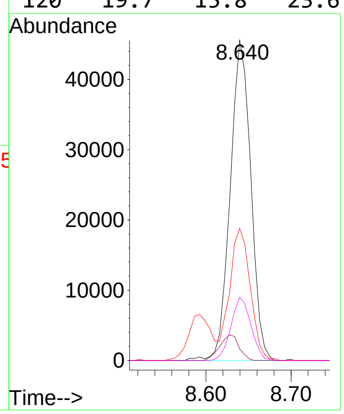


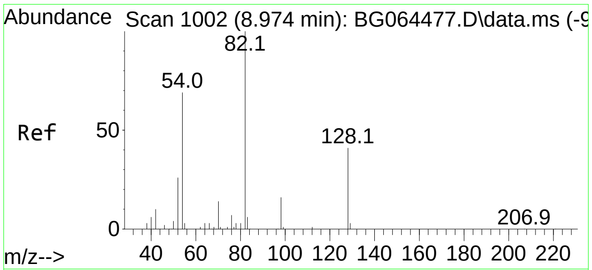

```
#21
Naphthalene-d8
Concen:   20.000 ng
RT:  10.614 min  Scan# 1
Delta R.T.  0.008 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:136 Resp:   7435
Ion  Ratio  Lower  Upper
136  100
137   10.4    8.3   12.5
 54    7.8    6.2    9.4
 68    3.7    3.0    4.4
```

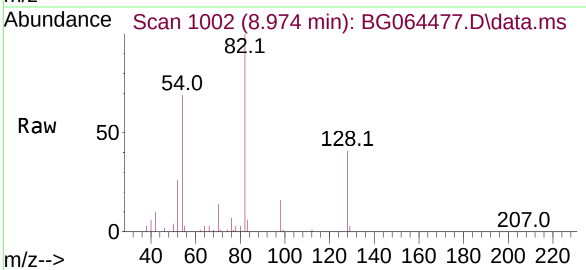


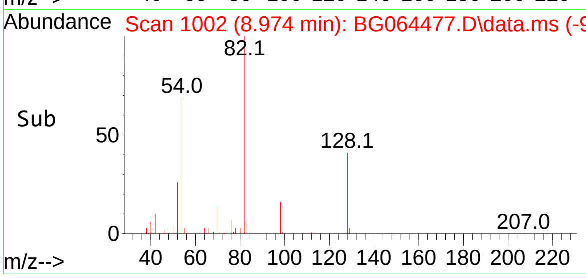




```
#22
Acetophenone
Concen:   42.634 ng
RT:   8.640 min  Scan# 945
Delta R.T.  0.008 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:105 Resp:   76751
Ion  Ratio  Lower  Upper
105  100
 71    3.5    2.8    4.2
 51   41.2   33.0   49.4
120   19.7   15.8   23.6
```






#23
Nitrobenzene-d5
Concen: 85.074 ng
RT: 8.974 min Scan# 10
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 82 Resp: 11763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 33.1 | 49.7 |
| 54 | 69.3 | 55.4 | 83.2 |

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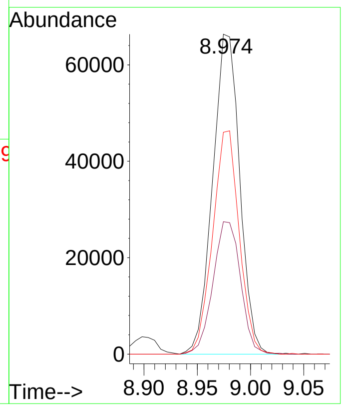
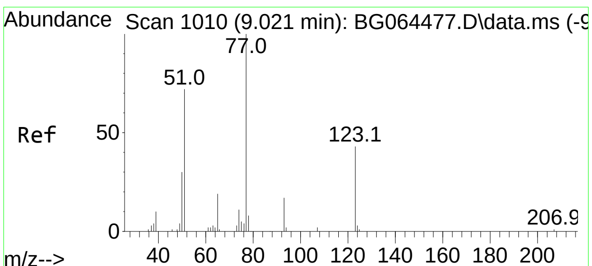
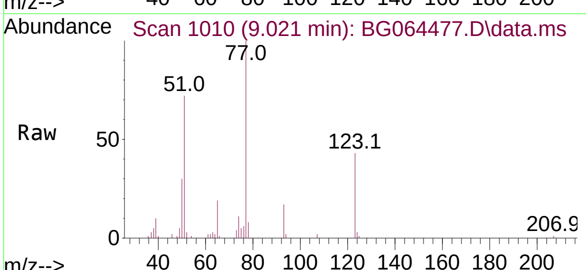
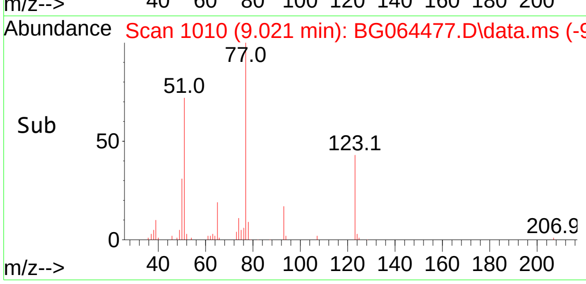


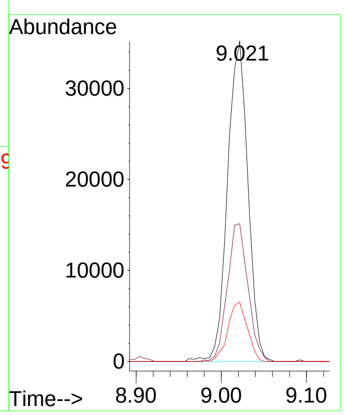



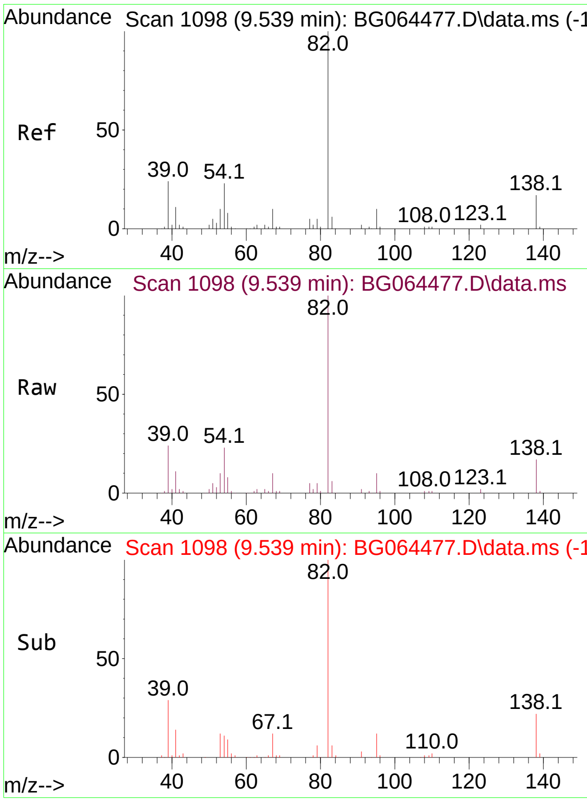




#24
Nitrobenzene
Concen: 42.592 ng
RT: 9.021 min Scan# 1010
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 77 Resp: 58730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.0 | 34.4 | 51.6 |
| 65 | 18.5 | 14.8 | 22.2 |






#25
Isophorone
Concen: 42.808 ng
RT: 9.539 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 82 Resp: 10723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 9.8 | 7.8 | 11.8 |
| 138 | 17.2 | 13.8 | 20.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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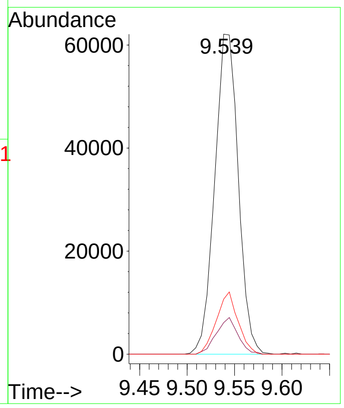
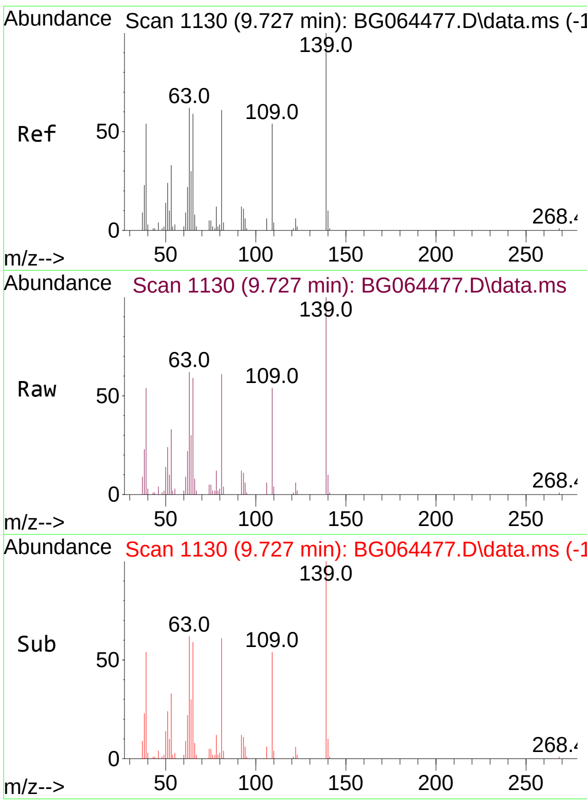
10/03/2025

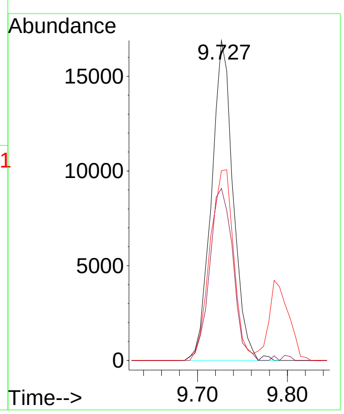



#26
2-Nitrophenol
Concen: 41.564 ng
RT: 9.727 min Scan# 1130
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:139 Resp: 28524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 53.8 | 43.0 | 64.6 |
| 65 | 59.3 | 47.4 | 71.2 |



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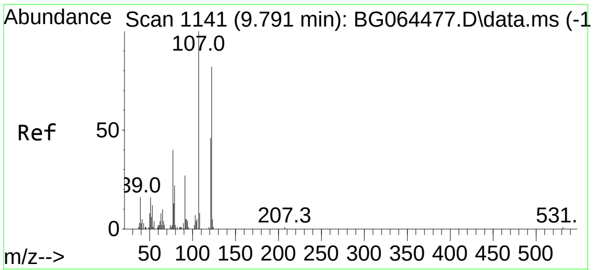


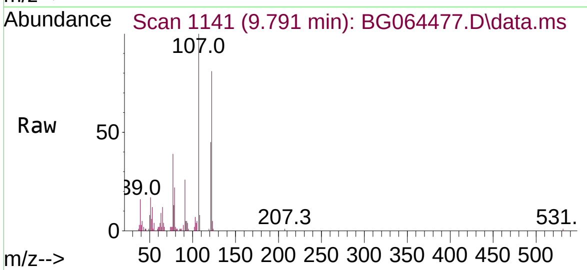


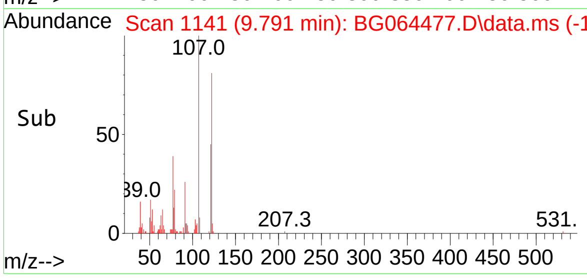


#27
2,4-Dimethylphenol
Concen: 42.353 ng
RT: 9.791 min Scan# 11
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:122 Resp: 4439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 122.9 | 98.3 | 147.5 |
| 121 | 55.9 | 44.7 | 67.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

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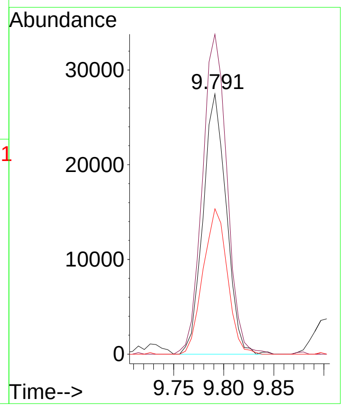
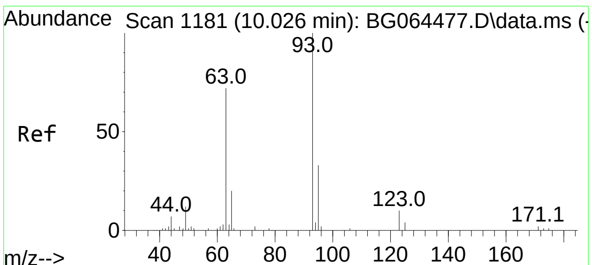
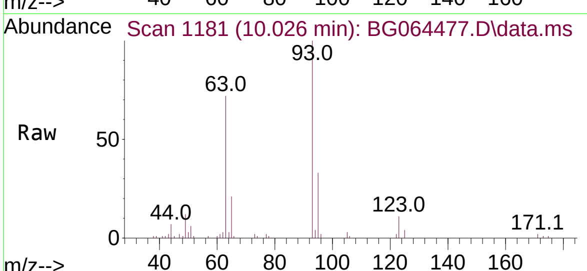
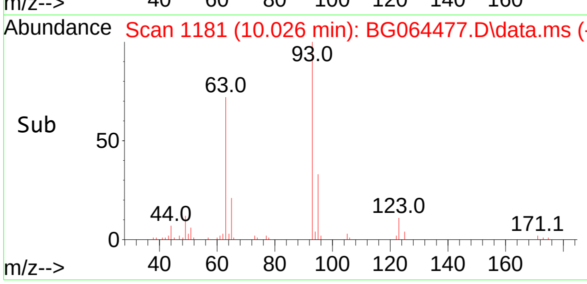
10/03/2025



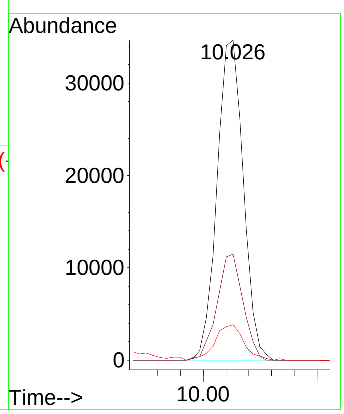



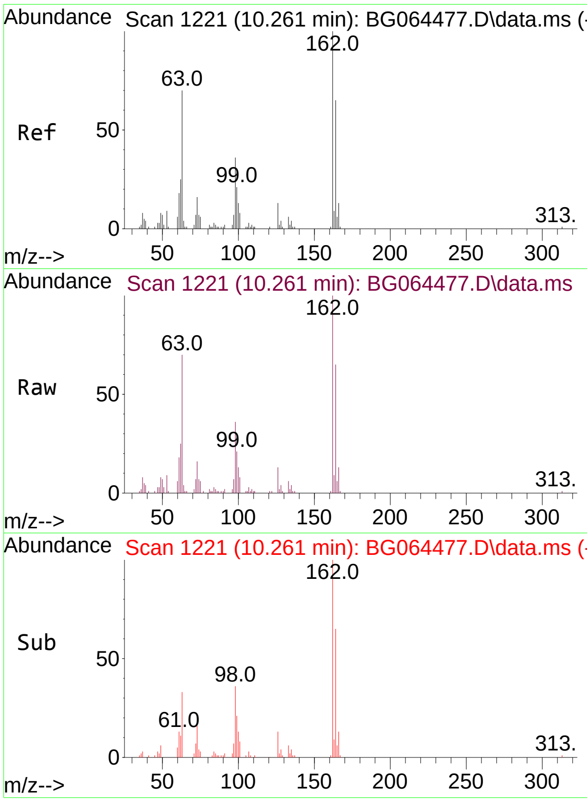

#28
bis(2-Chloroethoxy)methane
Concen: 43.620 ng
RT: 10.026 min Scan# 1181
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 93 Resp: 55697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.1 | 26.5 | 39.7 |
| 123 | 11.1 | 8.9 | 13.3 |



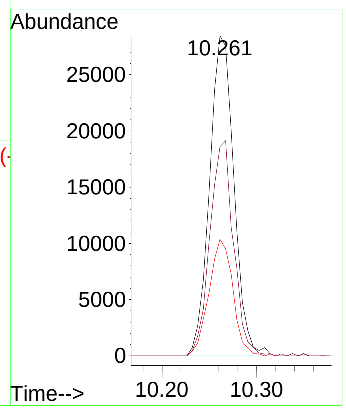
ICAL Form




#29
2,4-Dichlorophenol
Concen: 42.046 ng
RT: 10.261 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:162 Resp: 5096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 65.4 | 45.4 | 85.4 |
| 98 | 36.4 | 16.4 | 56.4 |

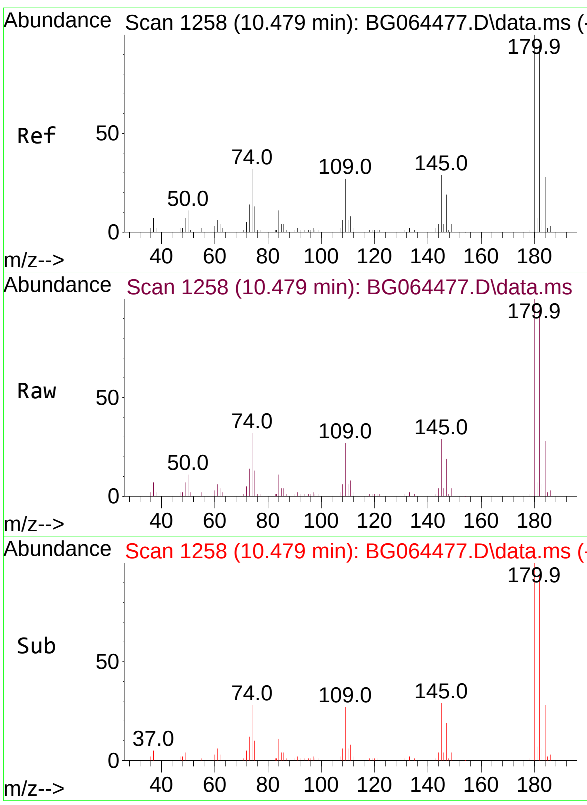



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

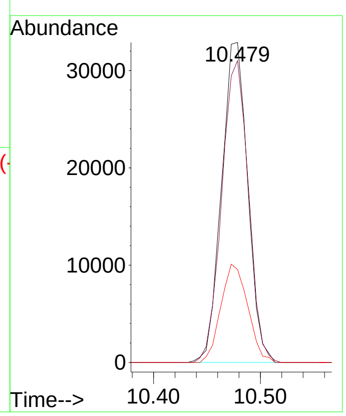
10/03/2025




#30
1,2,4-Trichlorobenzene
Concen: 42.432 ng
RT: 10.479 min Scan# 1258
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:180 Resp: 56079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 75.4 | 113.2 |
| 145 | 29.0 | 23.2 | 34.8 |



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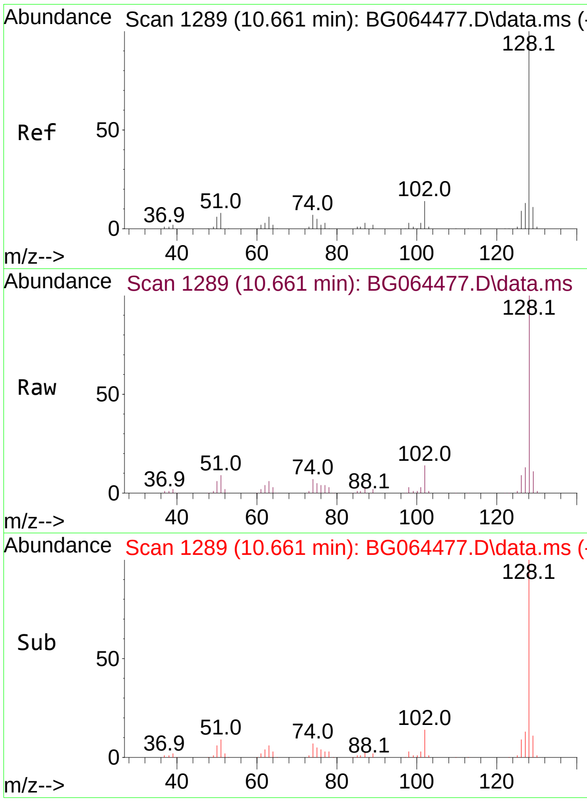


#31
Naphthalene
Concen: 43.002 ng
RT: 10.661 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:128 Resp: 164638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 12.7 | 10.2 | 15.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

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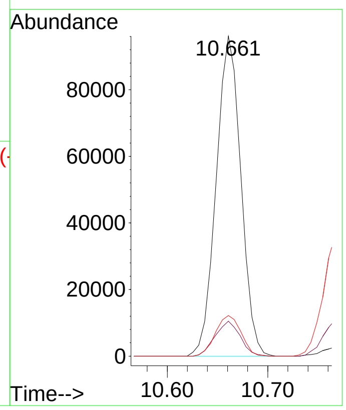
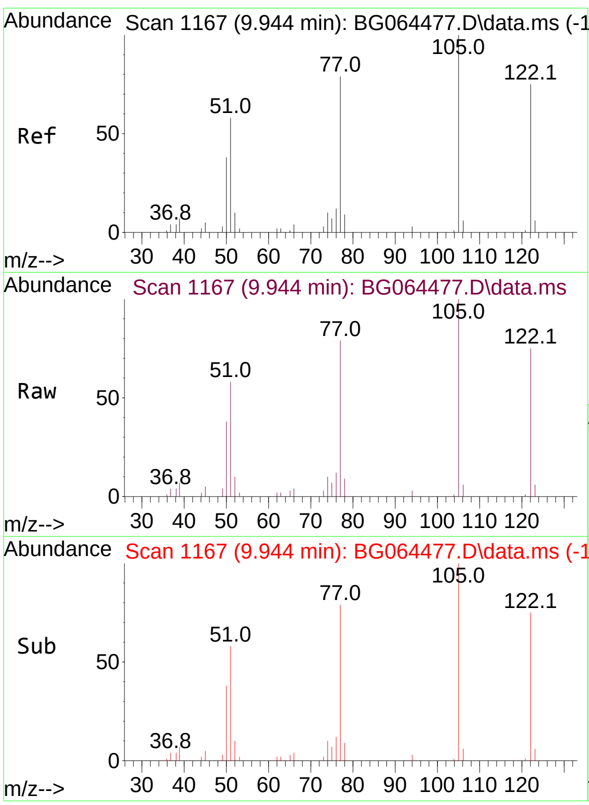
Chavli
10/03/2025
Supervised By :Jagrut
Upadhyay

10/03/2025

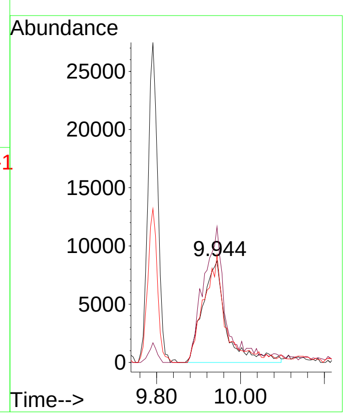



#32
Benzoic acid
Concen: 42.319 ng m
RT: 9.944 min Scan# 1167
Delta R.T. 0.055 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:122 Resp: 34057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 133.9 | 113.9 | 153.9 |
| 77 | 106.1 | 86.1 | 126.1 |



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**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
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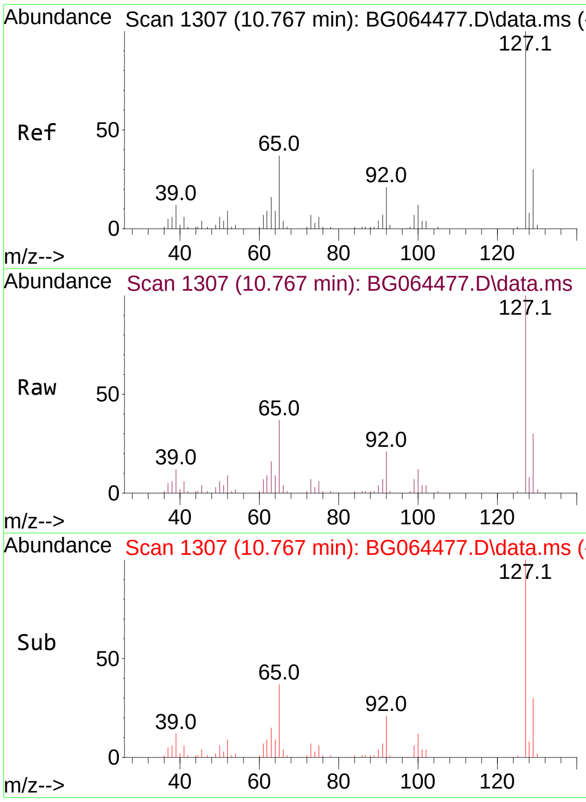
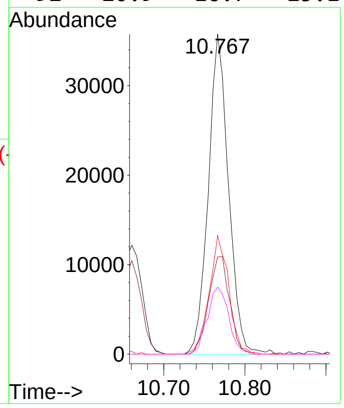
10/03/2025

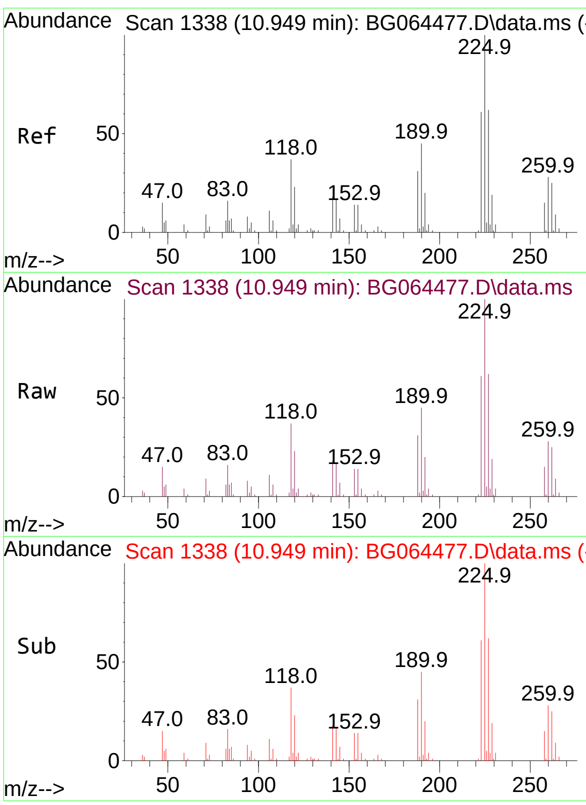



#33
4-Chloroaniline
Concen: 42.224 ng
RT: 10.767 min Scan# 13
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:127 Resp: 62035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 30.3 | 24.2 | 36.4 |
| 65 | 37.0 | 29.6 | 44.4 |
| 92 | 20.9 | 16.7 | 25.1 |

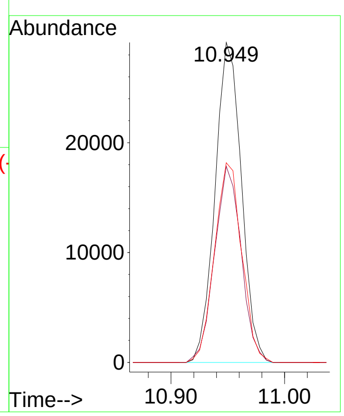



#34
Hexachlorobutadiene
Concen: 41.566 ng
RT: 10.949 min Scan# 1338
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:225 Resp: 47047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.3 | 49.0 | 73.6 |
| 227 | 62.4 | 49.9 | 74.9 |



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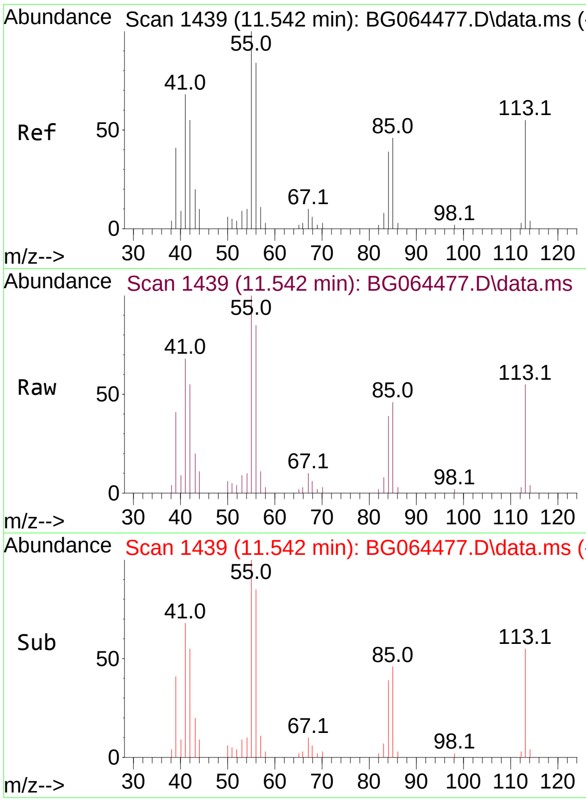


#35
Caprolactam
Concen: 41.118 ng
RT: 11.542 min Scan# 14
Delta R.T. 0.032 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:113 Resp: 1706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 182.0 | 162.0 | 202.0 |
| 56 | 154.6 | 134.6 | 174.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

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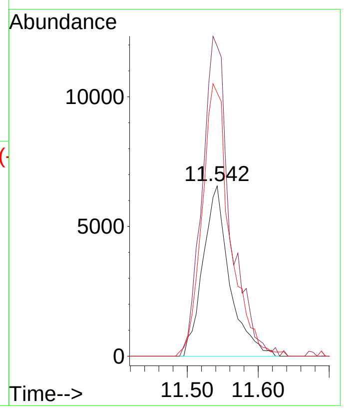
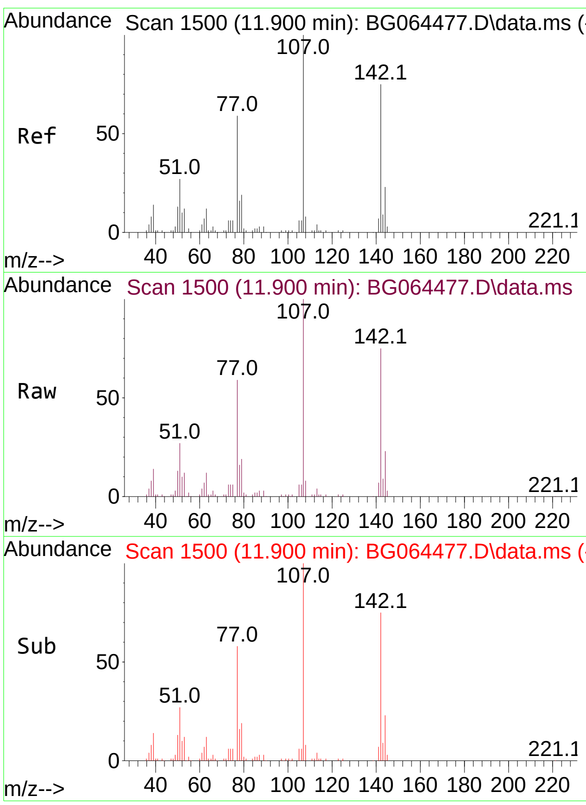
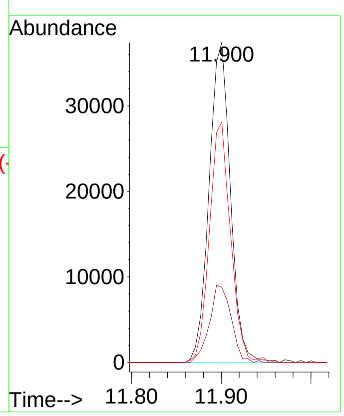



#36
4-Chloro-3-methylphenol
Concen: 42.181 ng
RT: 11.900 min Scan# 1500
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:107 Resp: 62176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.4 | 18.7 | 28.1 |
| 142 | 75.2 | 60.2 | 90.2 |



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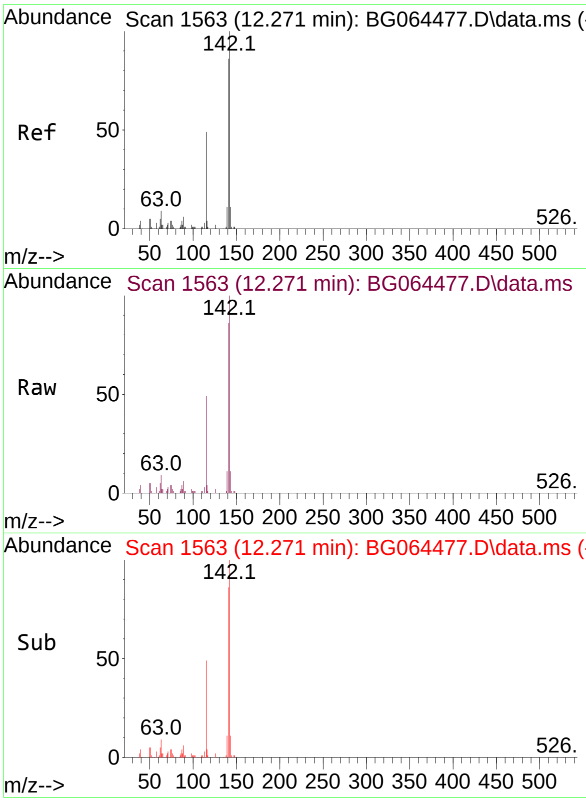


#37
2-Methylnaphthalene
Concen: 42.634 ng
RT: 12.271 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:142 Resp: 12529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.9 | 68.7 | 103.1 |
| 115 | 49.1 | 39.3 | 58.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
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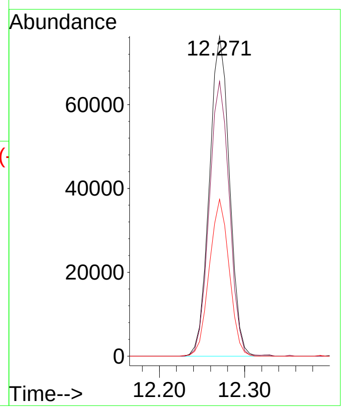
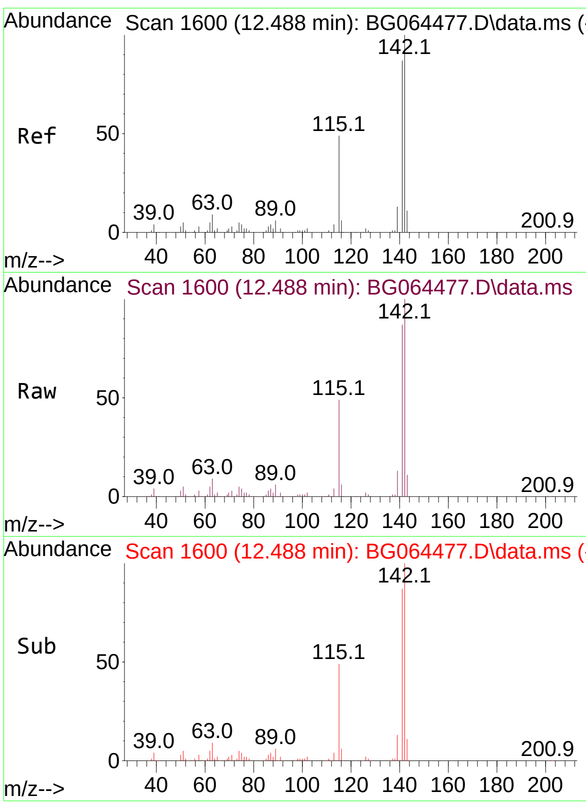
Supervised By :Jagrut
Upadhyay

10/03/2025

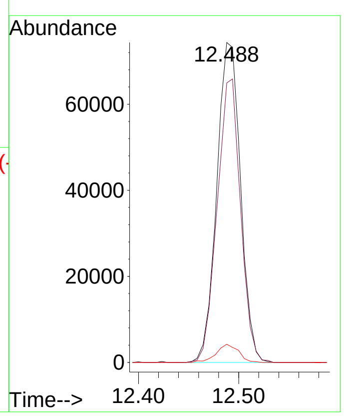


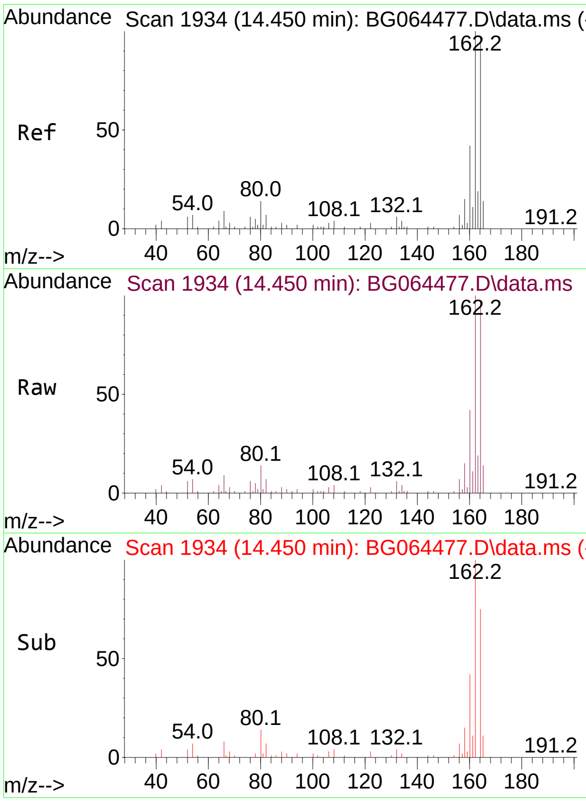




#38
1-Methylnaphthalene
Concen: 41.851 ng
RT: 12.488 min Scan# 1600
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:142 Resp: 122645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.3 | 69.8 | 104.8 |
| 116 | 6.0 | 4.6 | 6.8 |

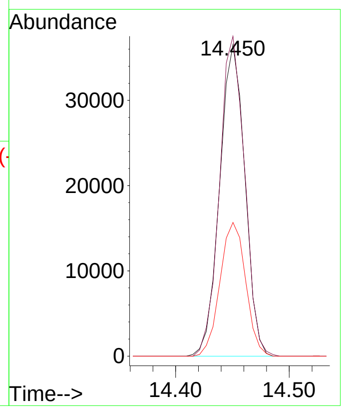





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.450 min Scan# 19
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:164 Resp: 5640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.2 | 123.2 |
| 160 | 42.9 | 34.3 | 51.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

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10/03/2025
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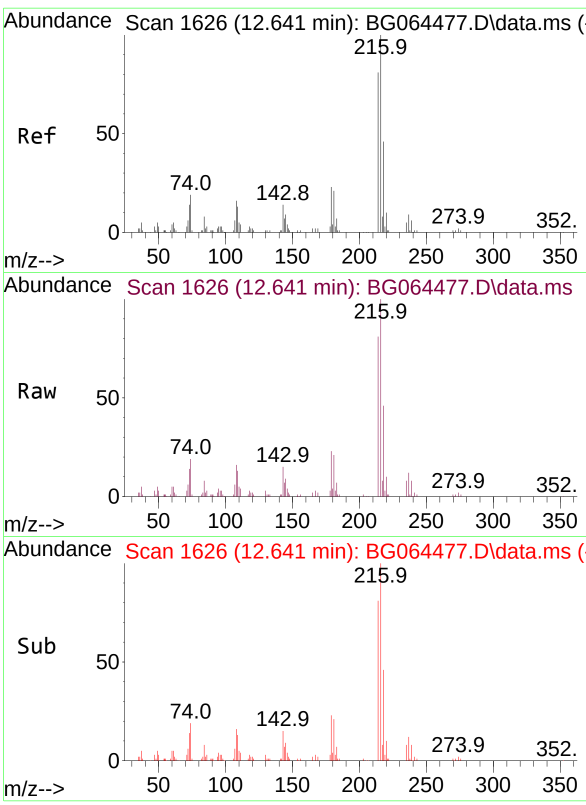
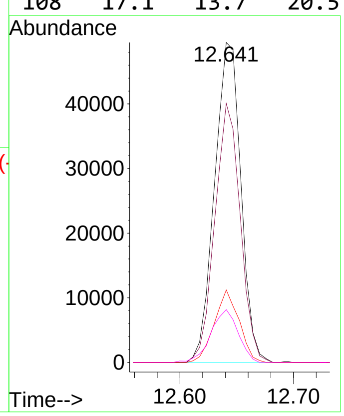
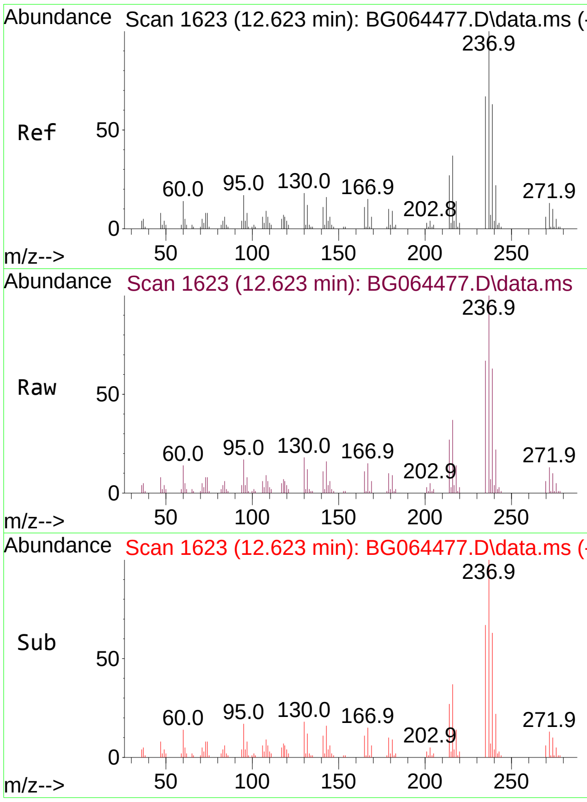



#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.852 ng
RT: 12.641 min Scan# 1626
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:216 Resp: 79864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.1 | 62.5 | 93.7 |
| 179 | 21.3 | 17.0 | 25.6 |
| 108 | 17.1 | 13.7 | 20.5 |

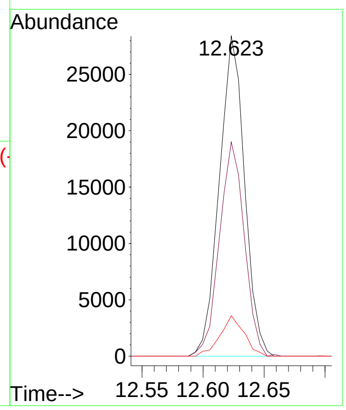





#41
Hexachlorocyclopentadiene
Concen: 42.981 ng
RT: 12.623 min Scan# 16
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:237 Resp: 4094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 66.9 | 46.9 | 86.9 |
| 272 | 12.6 | 0.0 | 32.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
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Supervised By :Jagrut Upadhyay

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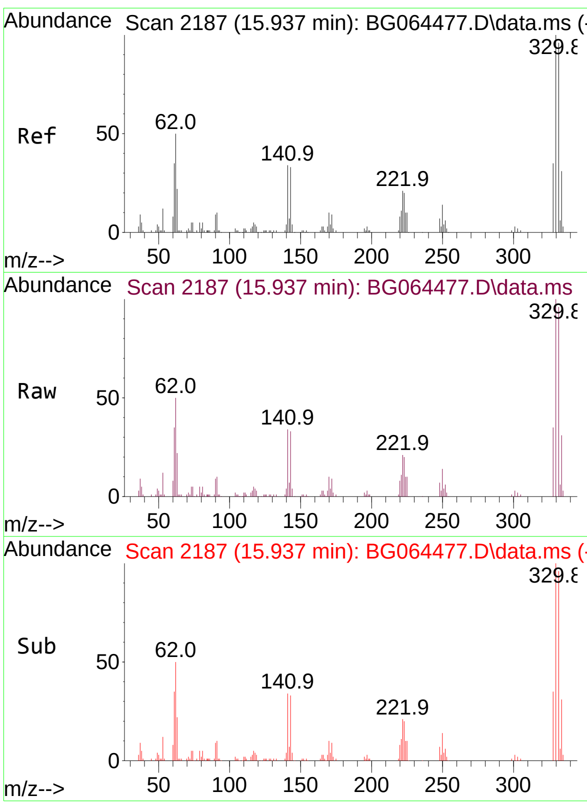
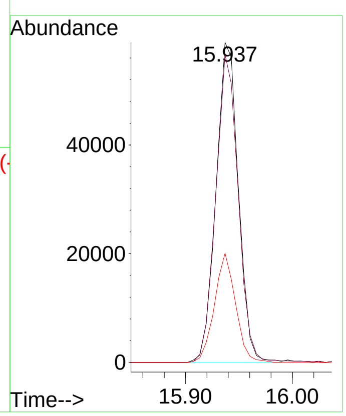
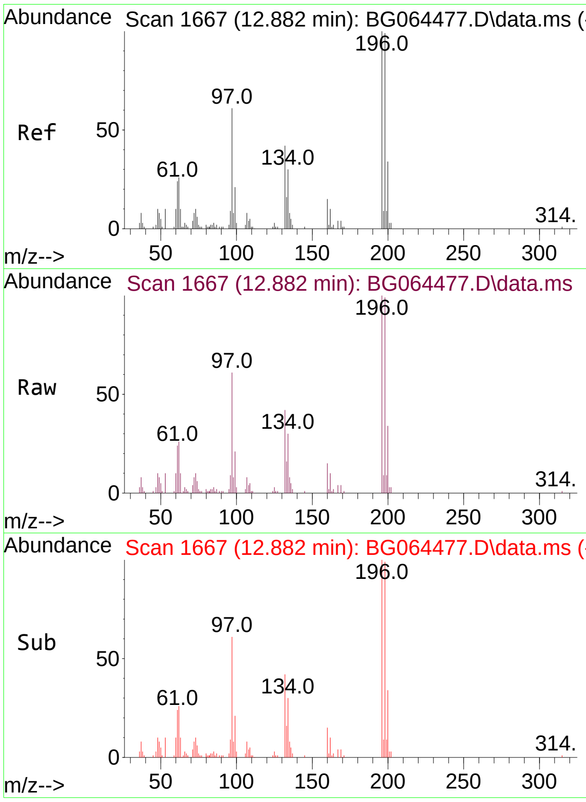



#42
2,4,6-Tribromophenol
Concen: 83.995 ng
RT: 15.937 min Scan# 2187
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:330 Resp: 85878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 77.4 | 116.0 |
| 141 | 32.2 | 25.8 | 38.6 |

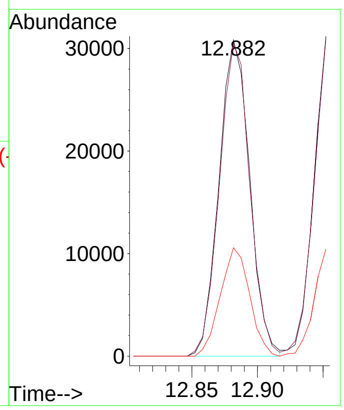





#43
2,4,6-Trichlorophenol
Concen: 43.159 ng
RT: 12.882 min Scan# 16
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:196 Resp: 5024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.1 | 79.3 | 118.9 |
| 200 | 34.3 | 27.4 | 41.2 |




**Instrument :** BNA_G
**ClientSampleId :** SSTDICCC040

**Manual Integrations APPROVED**

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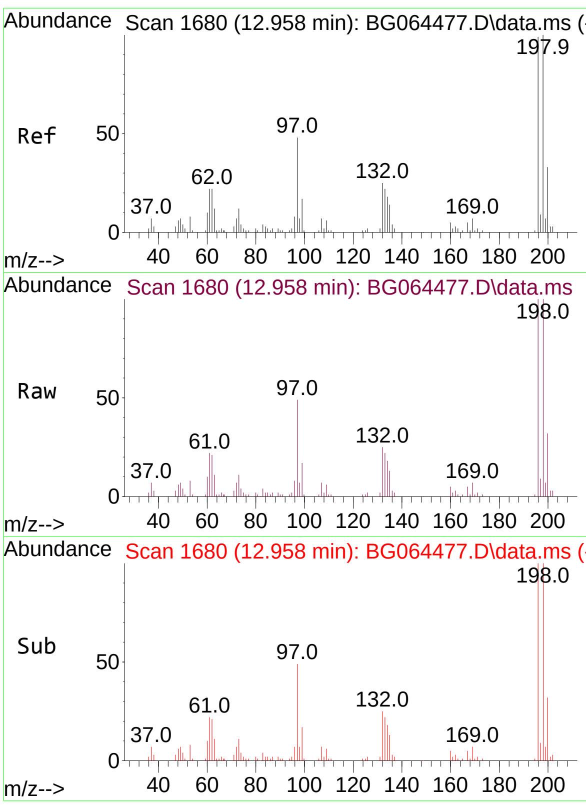
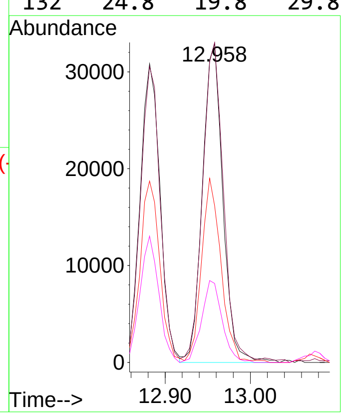



#44
2,4,5-Trichlorophenol
Concen: 42.147 ng
RT: 12.958 min Scan# 1680
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:196 Resp: 54781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.4 | 80.3 | 120.5 |
| 97 | 49.2 | 39.4 | 59.0 |
| 132 | 24.8 | 19.8 | 29.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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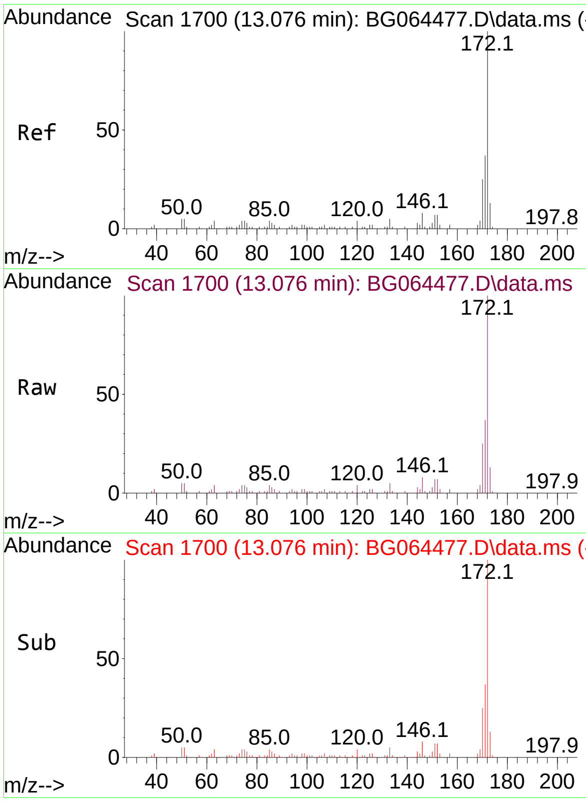
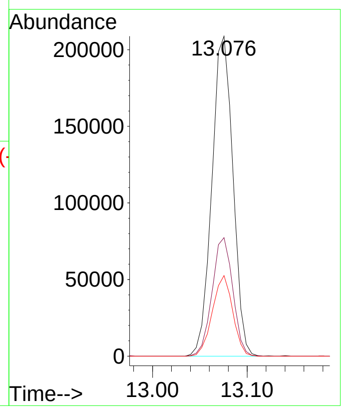
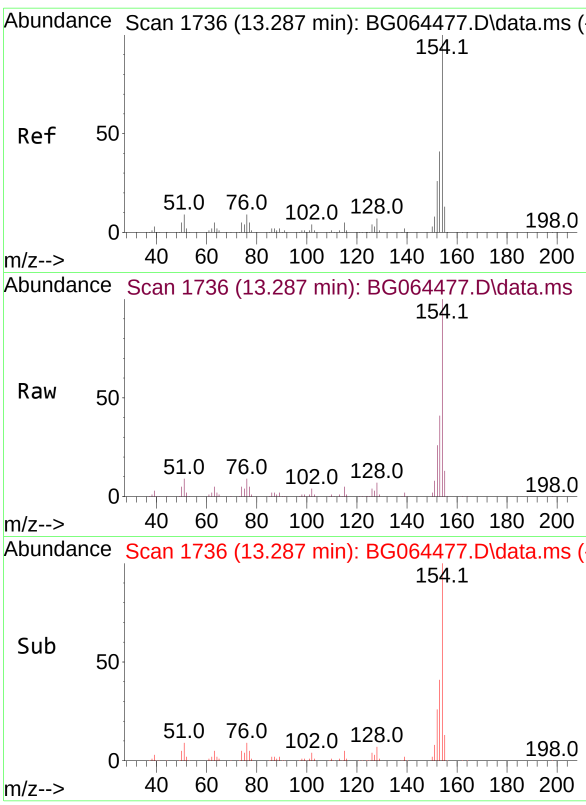



#45
2-Fluorobiphenyl
Concen: 84.566 ng
RT: 13.076 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:172 Resp: 323605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.0 | 29.6 | 44.4 |
| 170 | 25.2 | 20.2 | 30.2 |

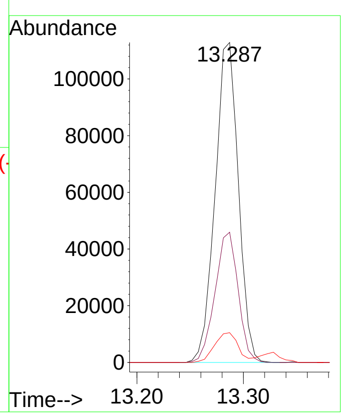



#46
1,1'-Biphenyl
Concen: 42.286 ng
RT: 13.287 min Scan# 1736
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:154 Resp: 171549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.7 | 20.7 | 60.7 |
| 76 | 9.3 | 0.0 | 29.3 |



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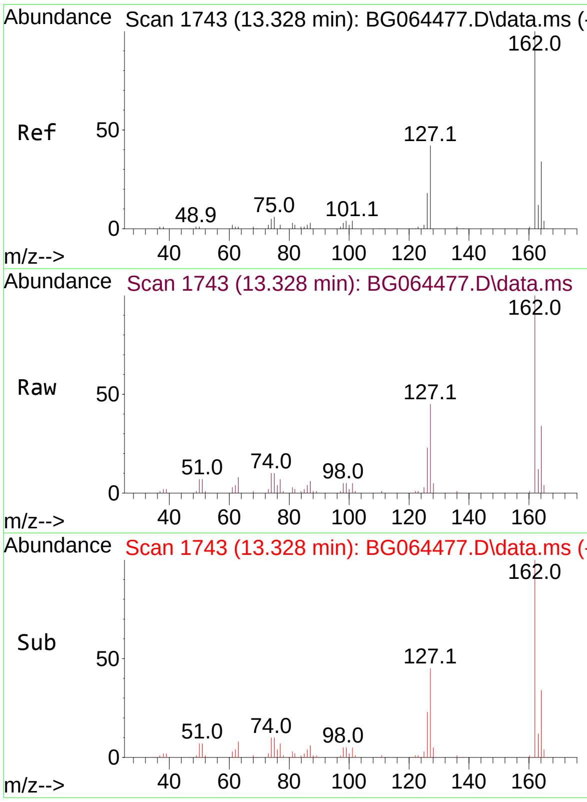


#47
2-Chloronaphthalene
Concen: 42.951 ng
RT: 13.328 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:162 Resp: 130095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.8 | 35.8 | 53.8 |
| 164 | 34.0 | 27.2 | 40.8 |

**Manual Integrations APPROVED**

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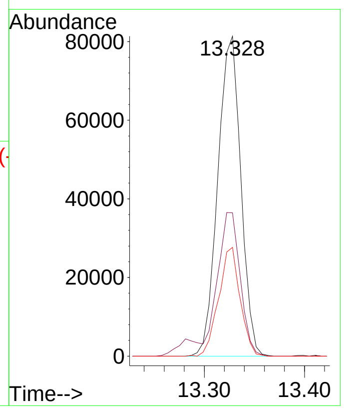
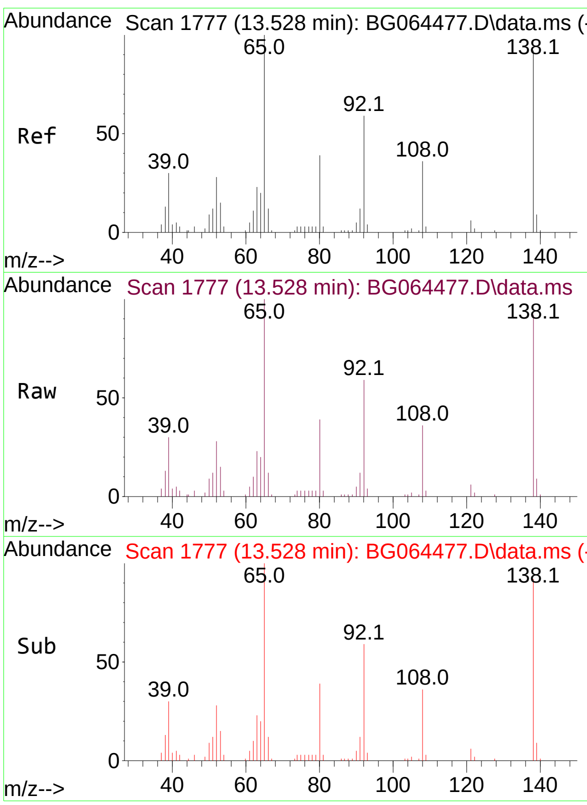
Supervised By :Jagrut Upadhyay

10/03/2025

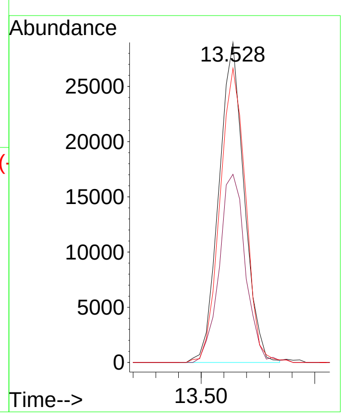



#48
2-Nitroaniline
Concen: 43.302 ng
RT: 13.528 min Scan# 1777
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 65 Resp: 44764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 58.8 | 47.0 | 70.6 |
| 138 | 91.9 | 73.5 | 110.3 |

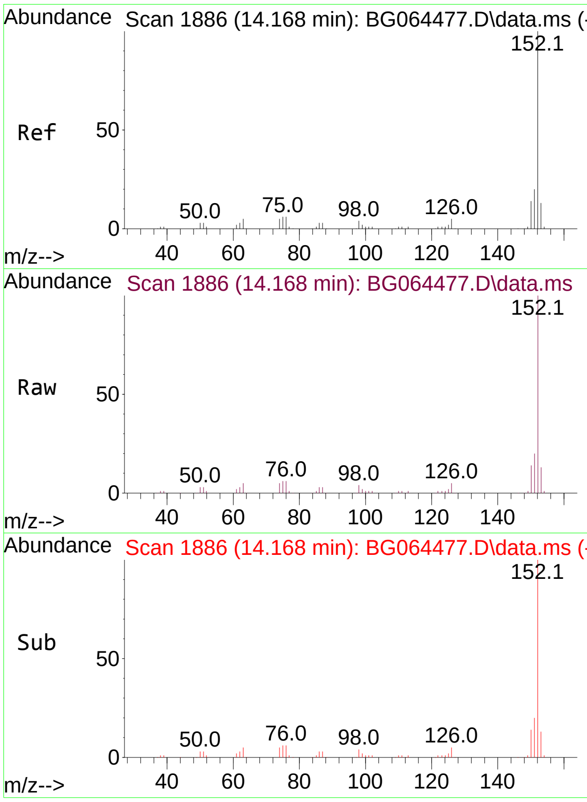


**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul
Chavli
10/03/2025
Supervised By :Jagrut
Upadhyay

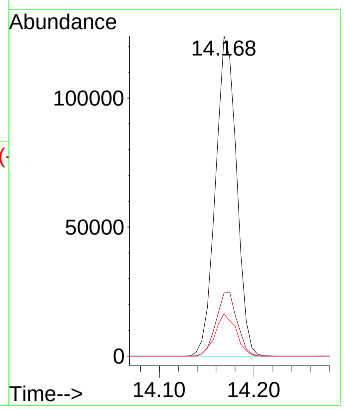
10/03/2025

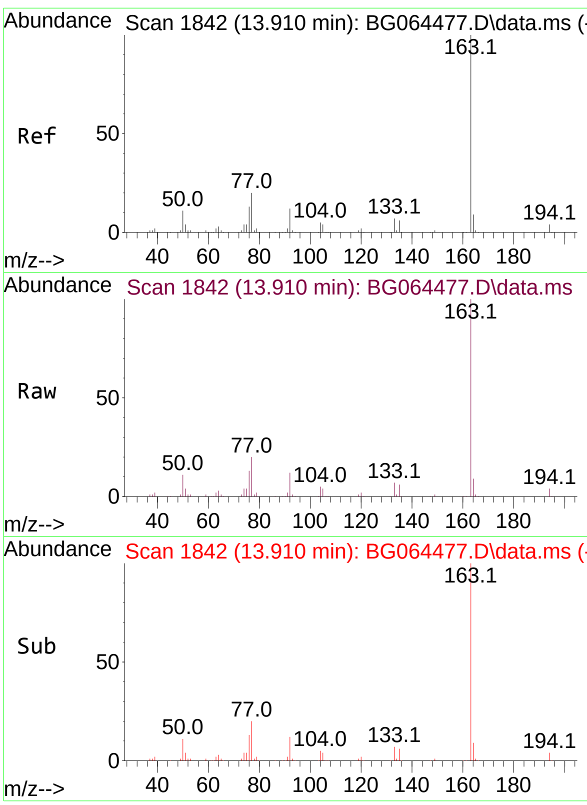



#49
Acenaphthylene
Concen: 42.745 ng
RT: 14.168 min Scan# 18
Delta R.T. -0.003 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:152 Resp: 19219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 15.8 | 23.6 |
| 153 | 13.2 | 10.6 | 15.8 |

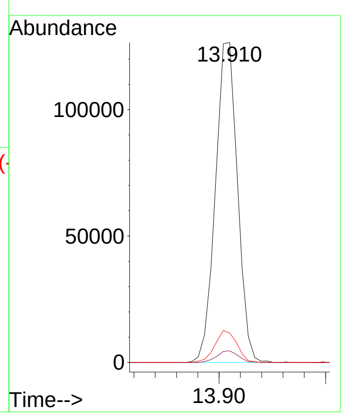


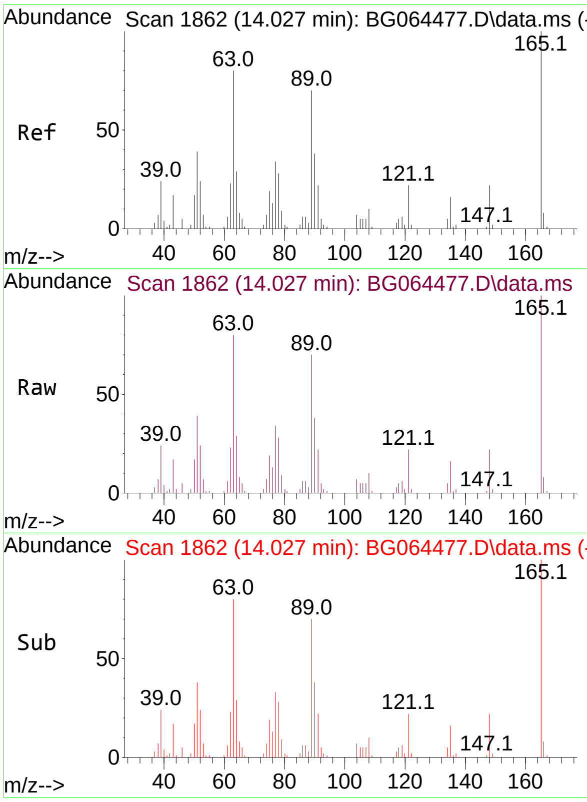




#50
Dimethylphthalate
Concen: 41.482 ng
RT: 13.910 min Scan# 1842
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:163 Resp: 183253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.6 | 2.9 | 4.3 |
| 164 | 9.2 | 7.4 | 11.0 |

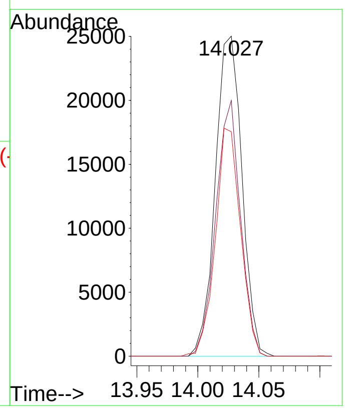





#51
2,6-Dinitrotoluene
Concen: 41.318 ng
RT: 14.027 min Scan# 18
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:165 Resp: 3802

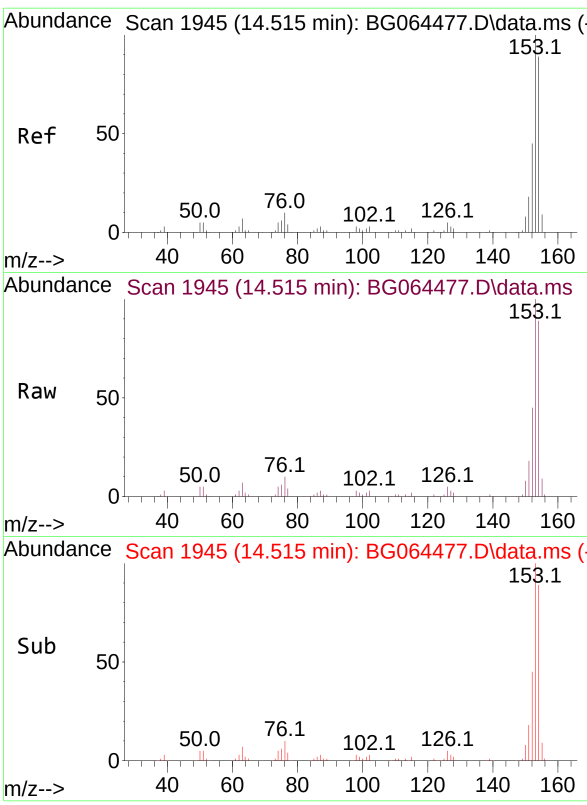
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 79.9 | 63.9 | 95.9 |
| 89 | 70.1 | 56.1 | 84.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

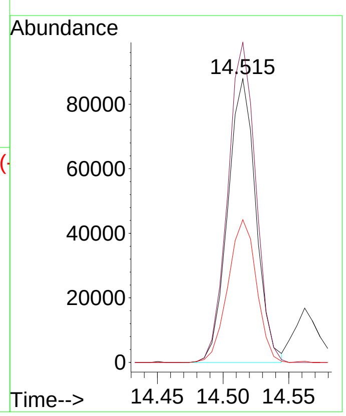
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025

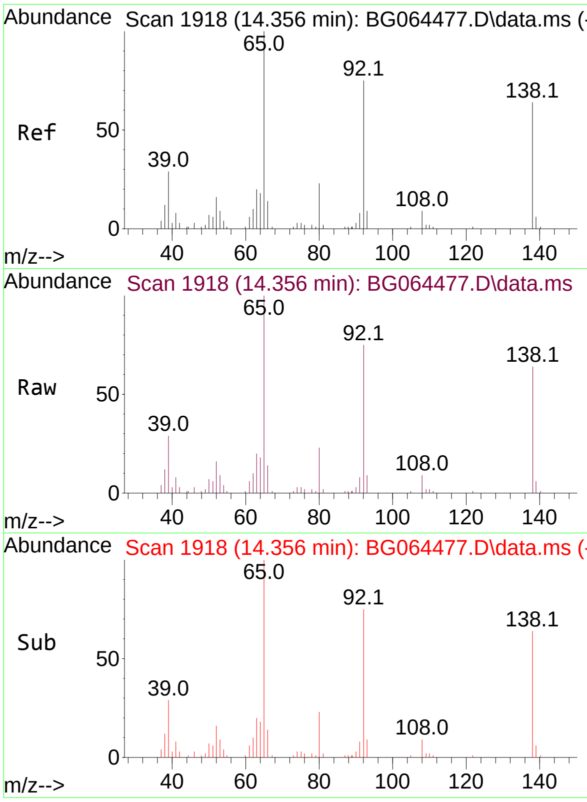



#52
Acenaphthene
Concen: 41.846 ng
RT: 14.515 min Scan# 1945
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:154 Resp: 130718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.8 | 90.2 | 135.4 |
| 152 | 50.3 | 40.2 | 60.4 |






#53
3-Nitroaniline
Concen: 42.448 ng
RT: 14.356 min Scan# 19
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:138 Resp: 36025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 13.2 | 10.6 | 15.8 |
| 92 | 116.5 | 93.2 | 139.8 |

**Manual Integrations**
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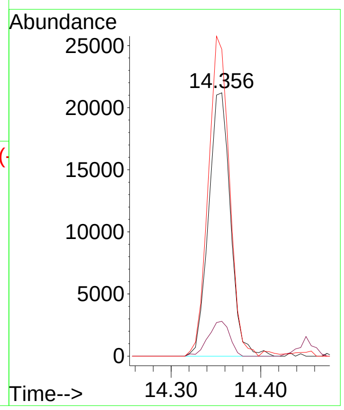
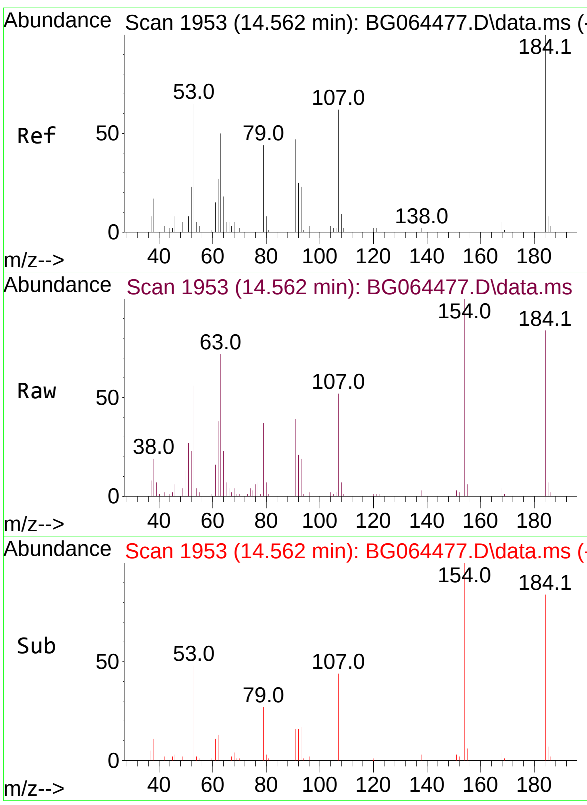
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

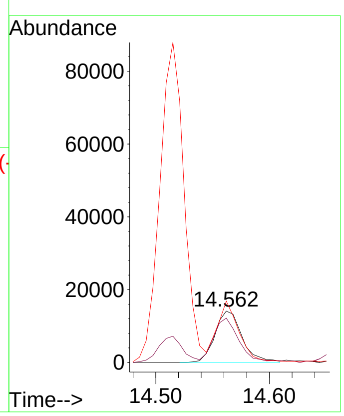


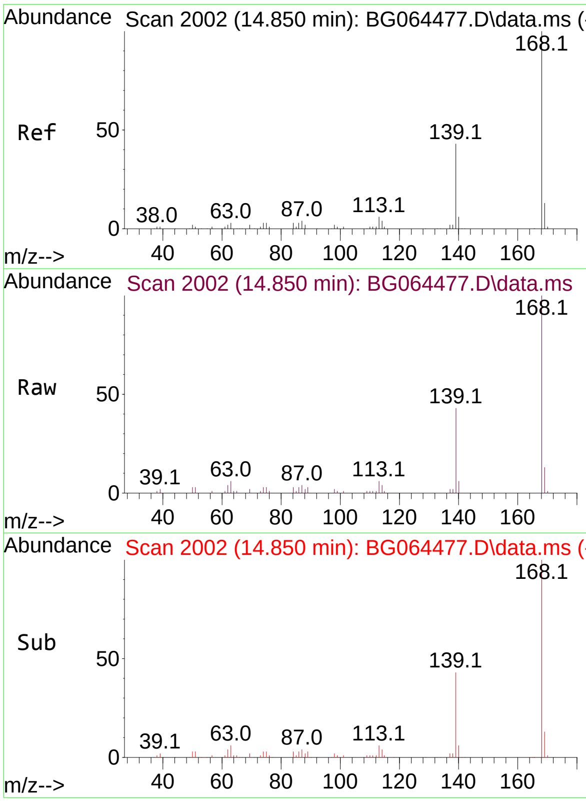




#54
2,4-Dinitrophenol
Concen: 35.006 ng
RT: 14.562 min Scan# 1953
Delta R.T. -0.003 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:184 Resp: 23359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 86.2 | 69.0 | 103.4 |
| 154 | 119.5 | 95.6 | 143.4 |






#55
Dibenzofuran
Concen: 41.749 ng
RT: 14.850 min Scan# 20
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

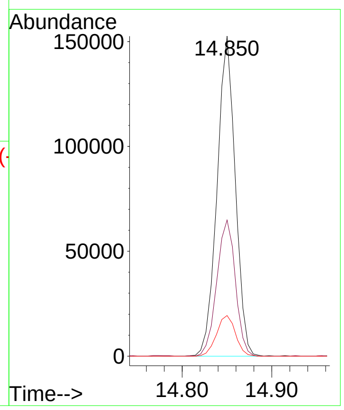
**Manual Integrations**
**APPROVED**

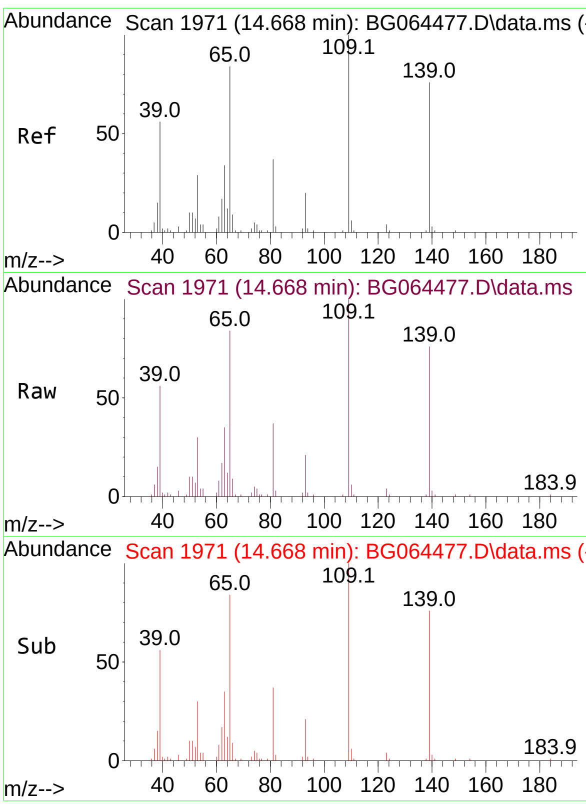
Reviewed By :Rahul
Chavli
10/03/2025
Supervised By :Jagrut
Upadhyay

10/03/2025

Tgt Ion:168 Resp: 21533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.5 | 34.0 | 51.0 |
| 169 | 12.7 | 10.2 | 15.2 |

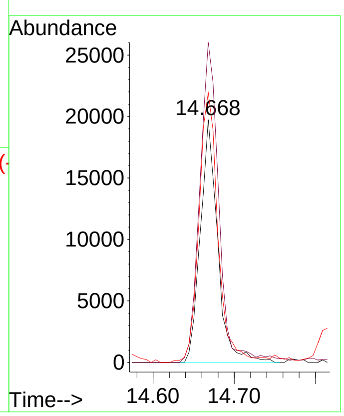


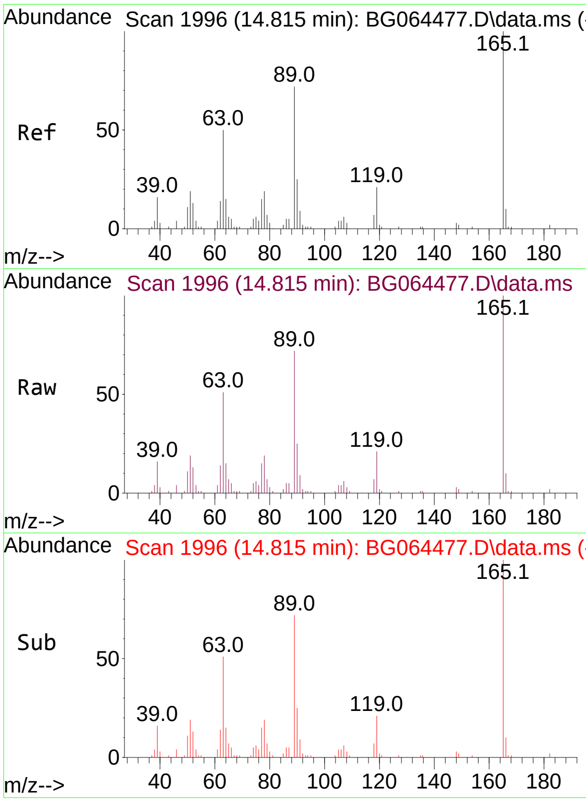

#56
4-Nitrophenol
Concen: 43.974 ng
RT: 14.668 min Scan# 1971
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:139 Resp: 29383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 131.8 | 111.8 | 151.8 |
| 65 | 111.1 | 91.1 | 131.1 |



ICAL Form




#57
2,4-Dinitrotoluene
Concen:   42.268 ng
RT:  14.815 min  Scan# 19
Delta R.T.  0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:165 Resp:   5946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 50.5 | 40.4 | 60.6 |
| 89 | 71.6 | 57.3 | 85.9 |
| 182 | 2.4 | 1.9 | 2.9 |

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10/03/2025
Supervised By :Jagrut Upadhyay

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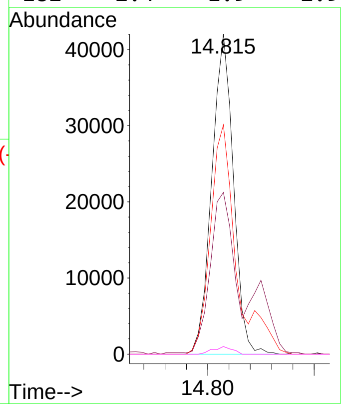
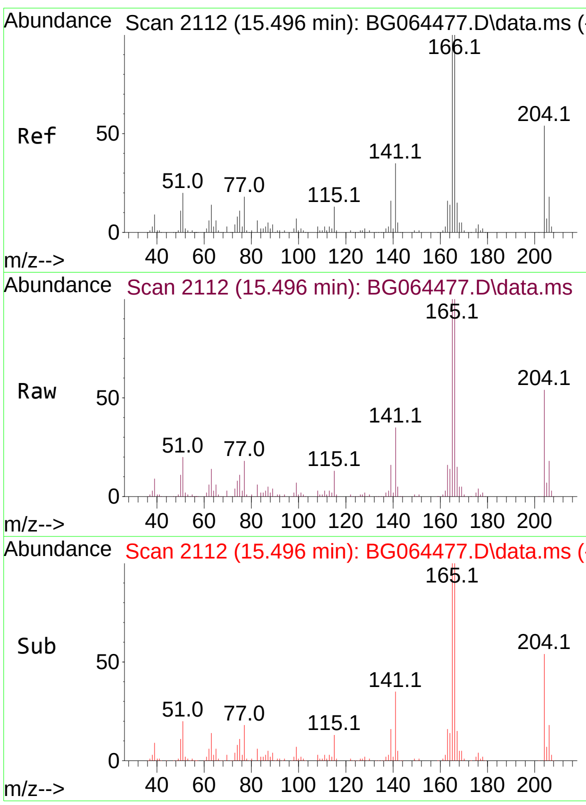
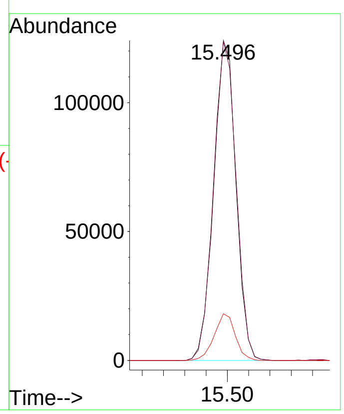



#58
Fluorene
Concen:   42.112 ng
RT:  15.496 min  Scan# 2112
Delta R.T.  0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:166 Resp:  180574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.7 | 79.8 | 119.6 |
| 167 | 14.6 | 11.7 | 17.5 |

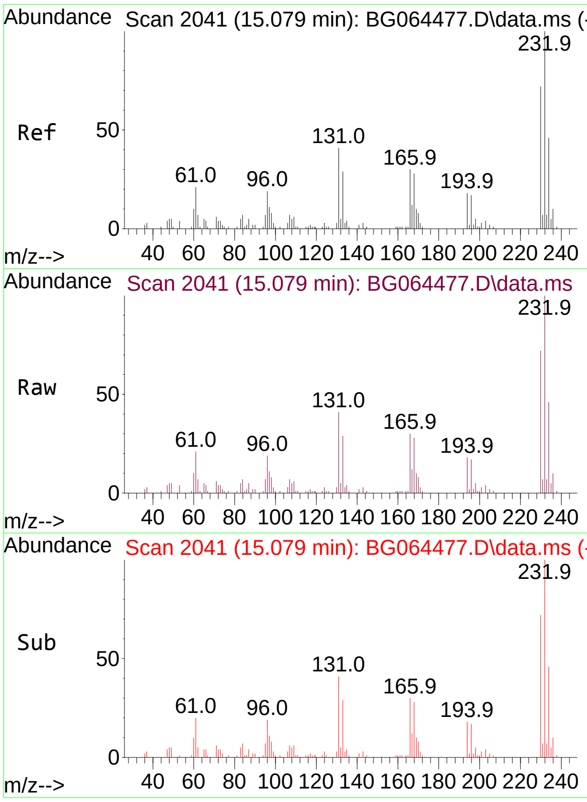


ICAL Form

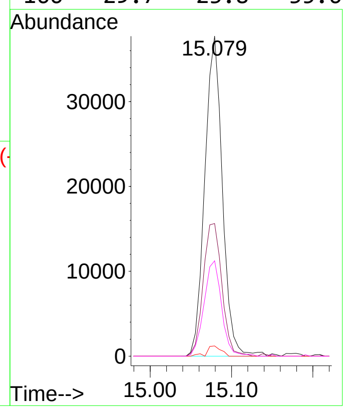
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

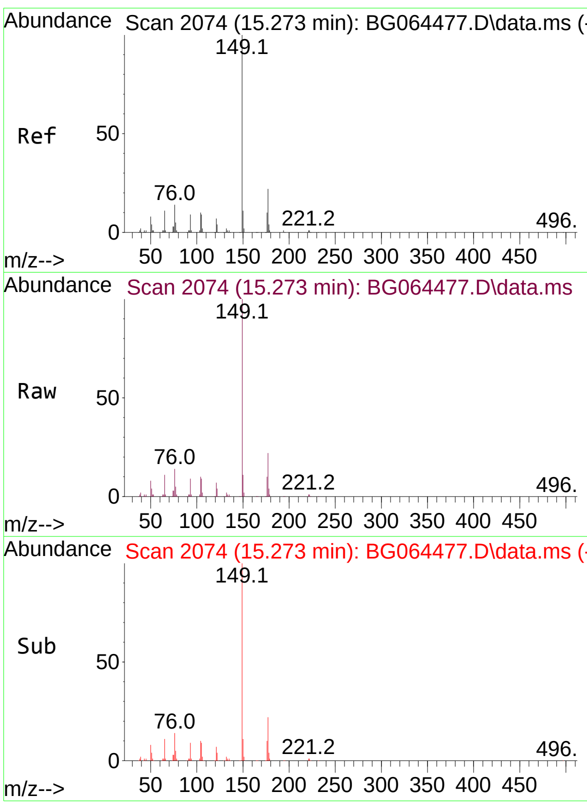
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

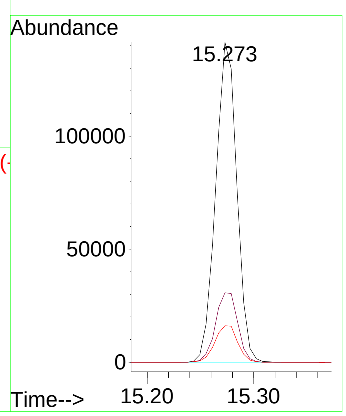



```
#59
2,3,4,6-Tetrachlorophenol
Concen:   42.971 ng
RT:  15.079 min   Scan# 20
Delta R.T.  0.008 min
Lab File:   BG064477.D
Acq:  2 Oct 2025   12:14

Tgt Ion:232 Resp:   5700(
Ion  Ratio  Lower  Upper
232  100
131   43.7   35.0   52.4
130    2.5    2.0    3.0
166   29.7   23.8   35.6
```

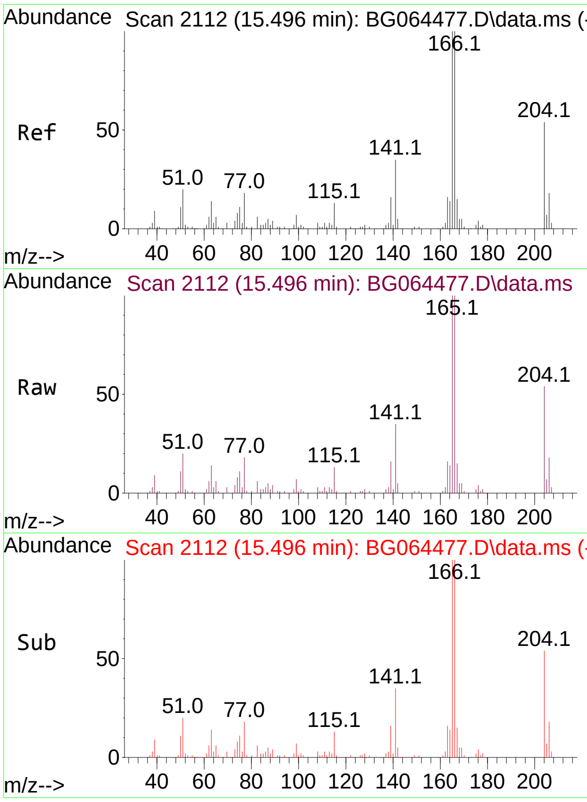



```
#60
Diethylphthalate
Concen:   41.179 ng
RT:  15.273 min   Scan# 2074
Delta R.T.  0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025   12:14

Tgt Ion:149 Resp:   195149
Ion  Ratio  Lower  Upper
149  100
177   21.7   17.4   26.0
150   11.4    9.1   13.7
```



ICAL Form




#61
4-Chlorophenyl-phenylether
Concen: 41.818 ng
RT: 15.496 min Scan# 2
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

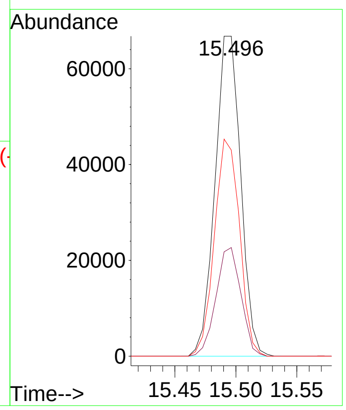
Tgt Ion:204 Resp: 9789

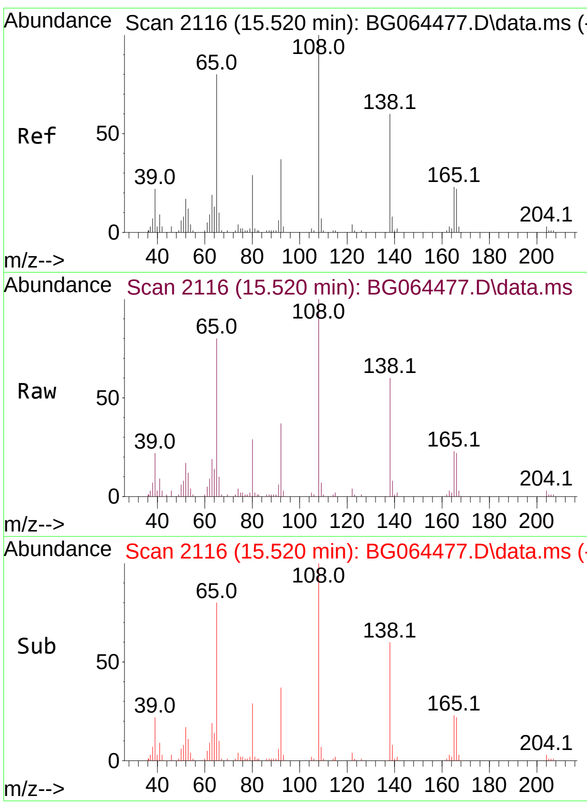
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.9 | 27.1 | 40.7 |
| 141 | 64.4 | 51.5 | 77.3 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

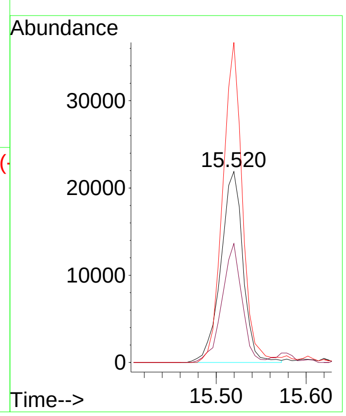


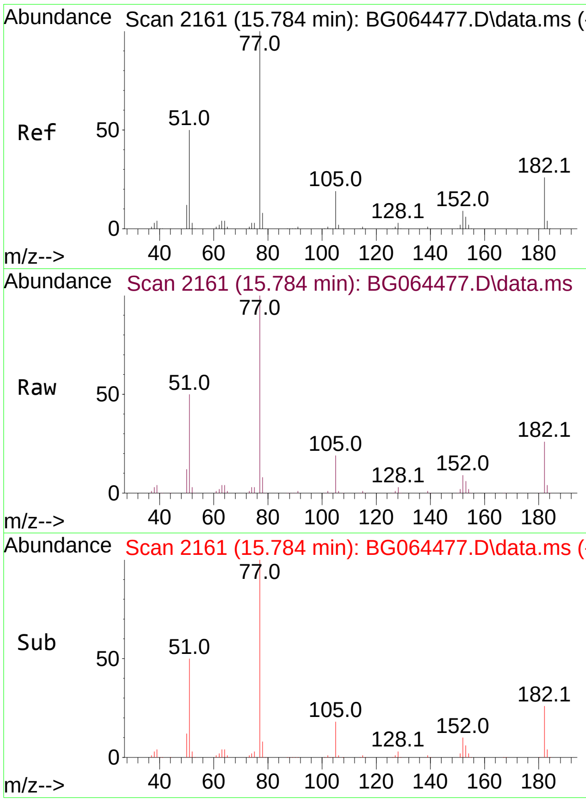

#62
4-Nitroaniline
Concen: 42.613 ng
RT: 15.520 min Scan# 2116
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:138 Resp: 37694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 62.3 | 42.3 | 82.3 |
| 108 | 167.7 | 147.7 | 187.7 |



ICAL Form




#63
Azobenzene
Concen: 41.381 ng
RT: 15.784 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion: 77 Resp: 151875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 26.3 | 6.3 | 46.3 |
| 105 | 18.7 | 0.0 | 38.7 |
| 51 | 50.3 | 30.3 | 70.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

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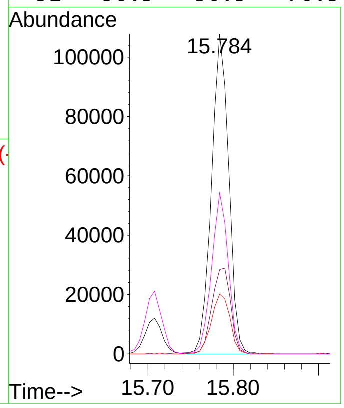
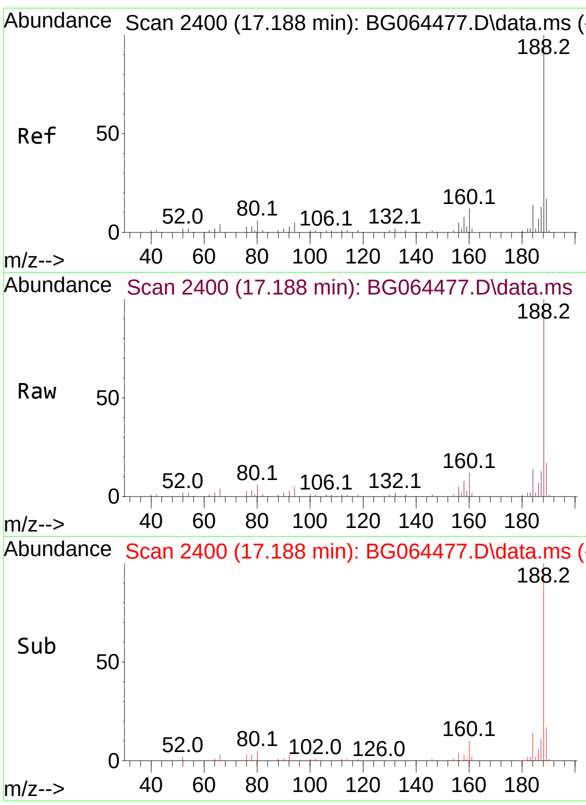
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

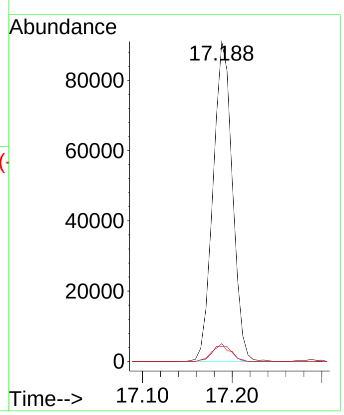



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.188 min Scan# 2400
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:188 Resp: 137065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 4.6 | 3.7 | 5.5 |
| 80 | 5.6 | 4.5 | 6.7 |



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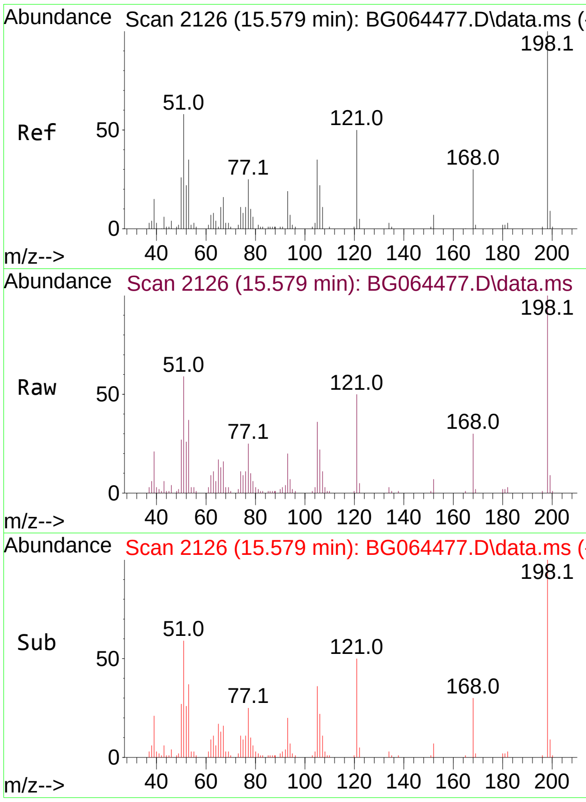


#65
4,6-Dinitro-2-methylphenol
Concen: 41.634 ng
RT: 15.579 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:198 Resp: 3973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 59.0 | 39.0 | 79.0 |
| 105 | 35.8 | 15.8 | 55.8 |

**Manual Integrations APPROVED**

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10/03/2025
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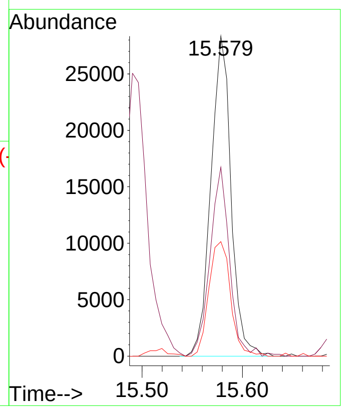
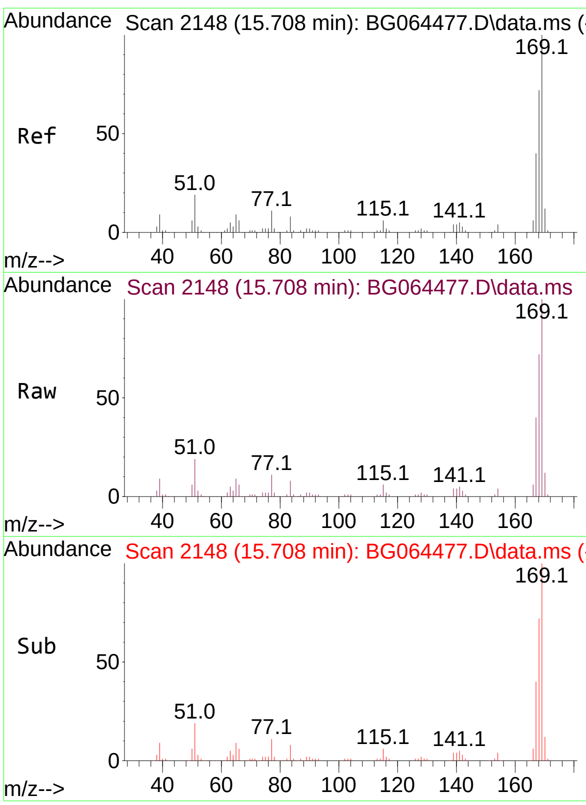
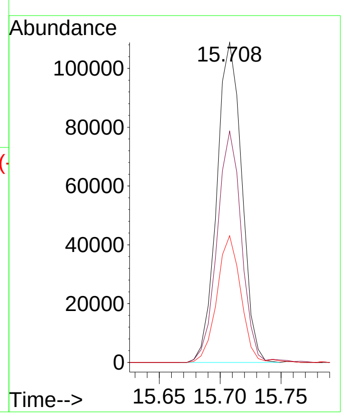


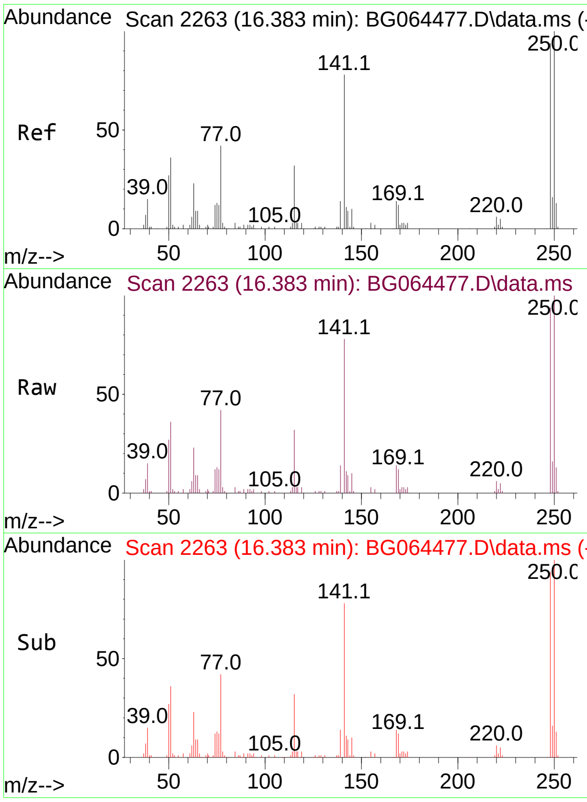

#66
n-Nitrosodiphenylamine
Concen: 42.580 ng
RT: 15.708 min Scan# 2148
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:169 Resp: 155849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 72.2 | 57.8 | 86.6 |
| 167 | 39.6 | 31.7 | 47.5 |



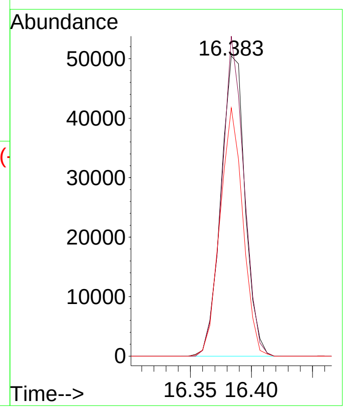
ICAL Form



#67
4-Bromophenyl-phenylether
Concen: 43.066 ng
RT: 16.383 min Scan# 2263
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:248 Resp: 69462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 106.6 | 85.3 | 127.9 |
| 141 | 82.7 | 66.2 | 99.2 |

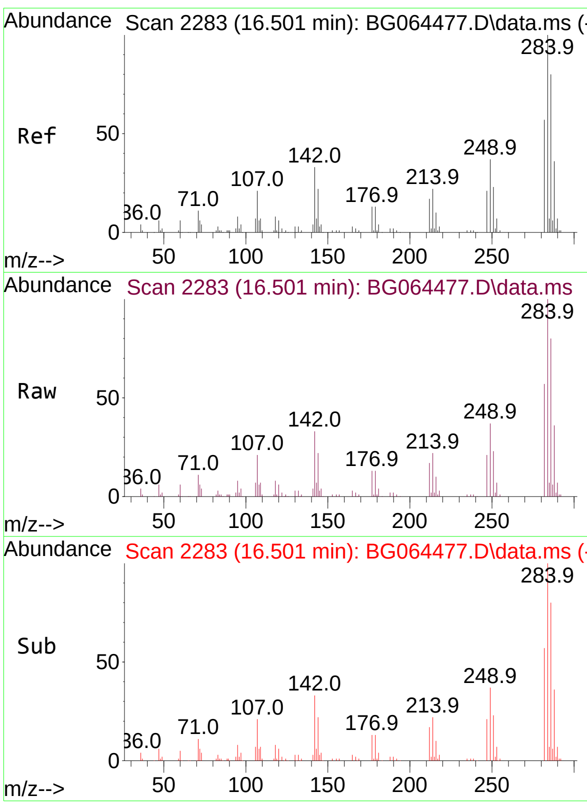


**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

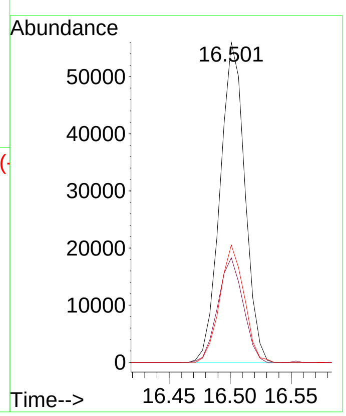
10/03/2025



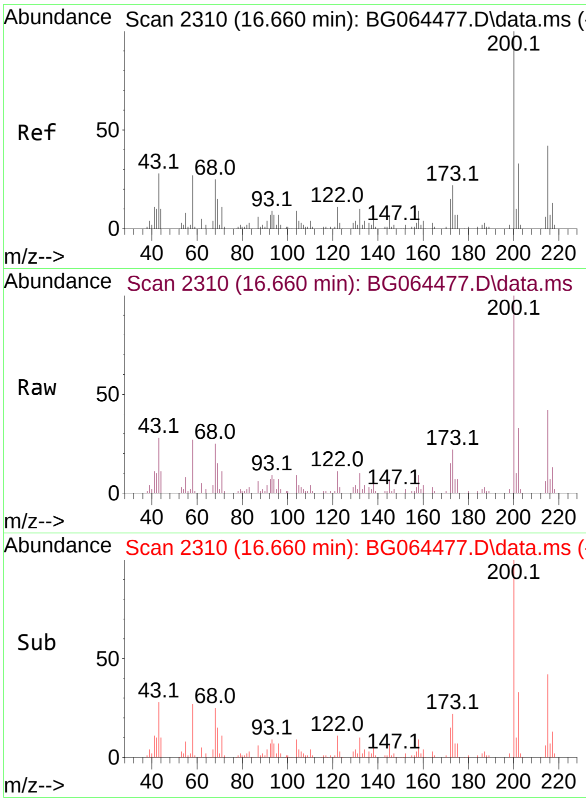
#68
Hexachlorobenzene
Concen: 42.809 ng
RT: 16.501 min Scan# 2283
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:284 Resp: 79010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 32.7 | 26.2 | 39.2 |
| 249 | 36.7 | 29.4 | 44.0 |



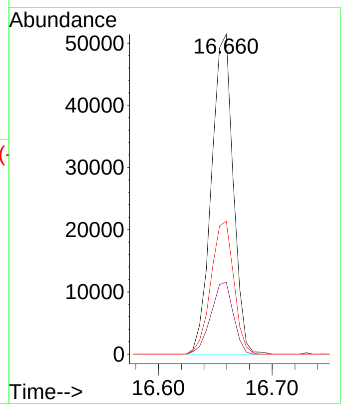
# ICAL Form




#69
Atrazine
Concen:   42.039 ng
RT:  16.660 min  Scan# 2
Delta R.T.  0.008 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:200 Resp:   6845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 22.5 | 2.5 | 42.5 |
| 215 | 41.5 | 21.5 | 61.5 |

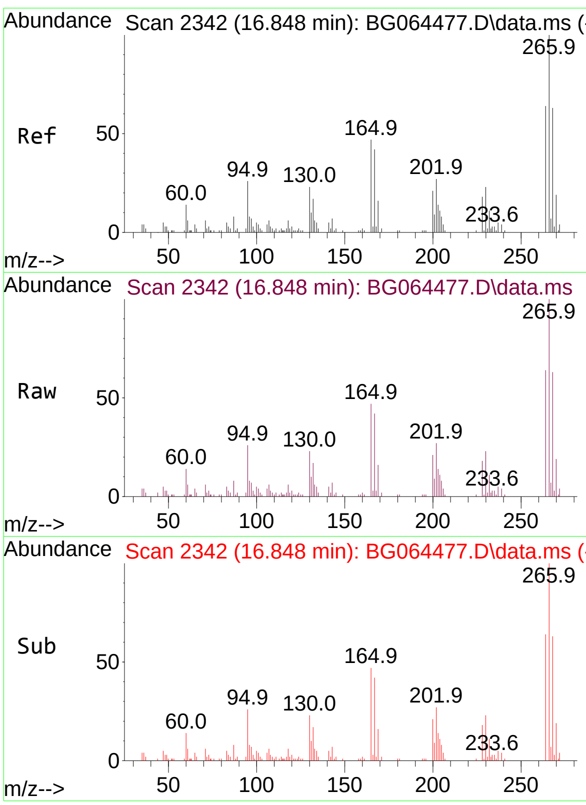



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

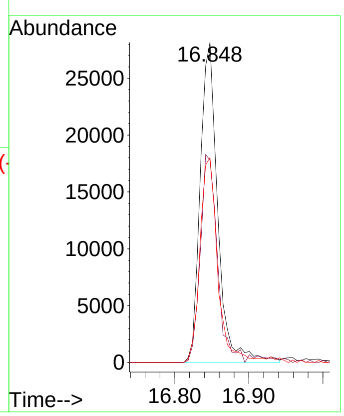
10/03/2025

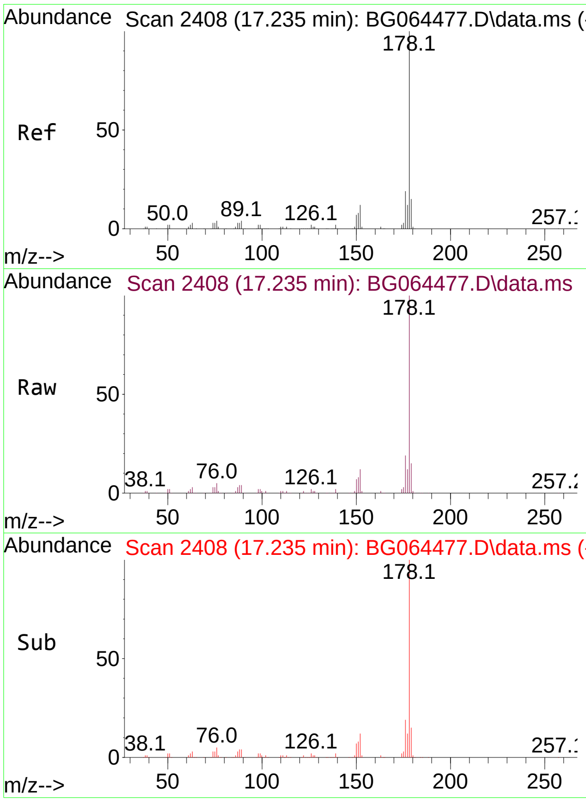



#70
Pentachlorophenol
Concen:   43.049 ng
RT:  16.848 min  Scan# 2342
Delta R.T.  0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:266 Resp:   46456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.2 | 50.6 | 75.8 |
| 264 | 64.0 | 51.2 | 76.8 |






#71
Phenanthrene
Concen: 42.473 ng
RT: 17.235 min Scan# 24
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 304441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.2 | 22.8 |
| 179 | 14.7 | 11.8 | 17.6 |

**Manual Integrations APPROVED**

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10/03/2025

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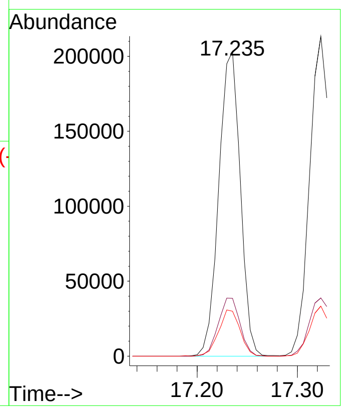
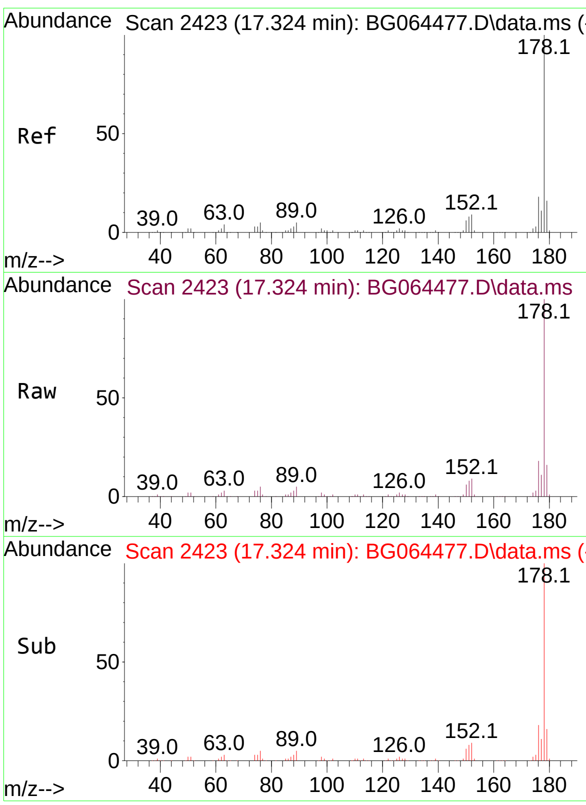
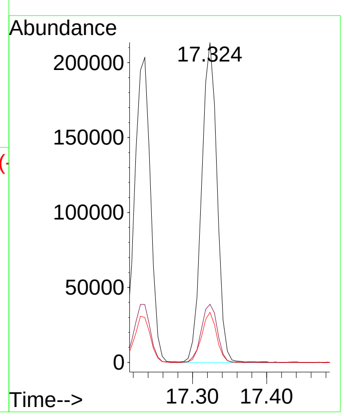


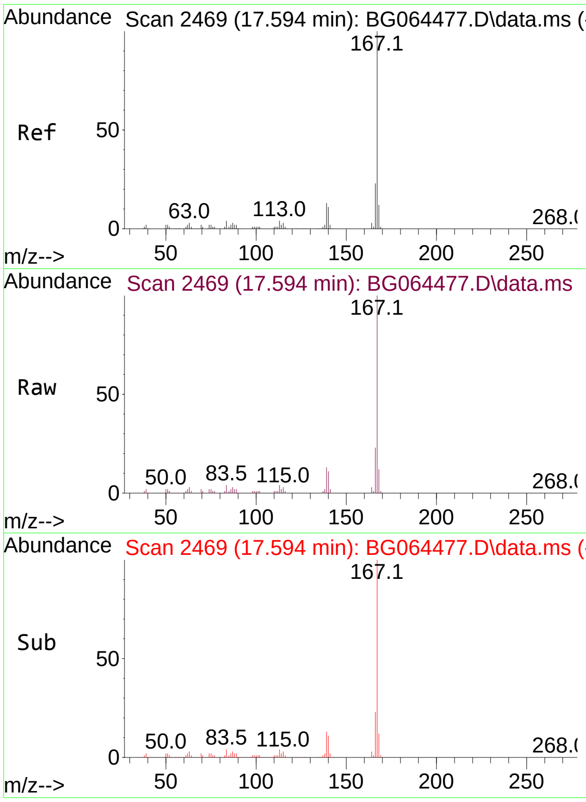




#72
Anthracene
Concen: 43.082 ng
RT: 17.324 min Scan# 2423
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:178 Resp: 309798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 14.6 | 21.8 |
| 179 | 15.6 | 12.5 | 18.7 |

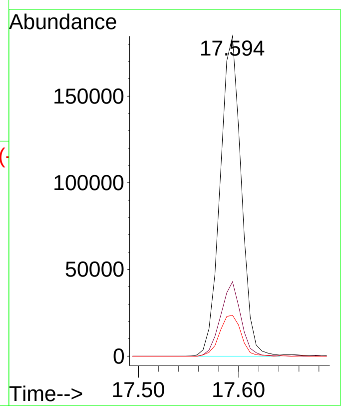





#73
Carbazole
Concen: 43.520 ng
RT: 17.594 min Scan# 24
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:167 Resp: 270505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.2 | 18.6 | 27.8 |
| 139 | 12.8 | 10.2 | 15.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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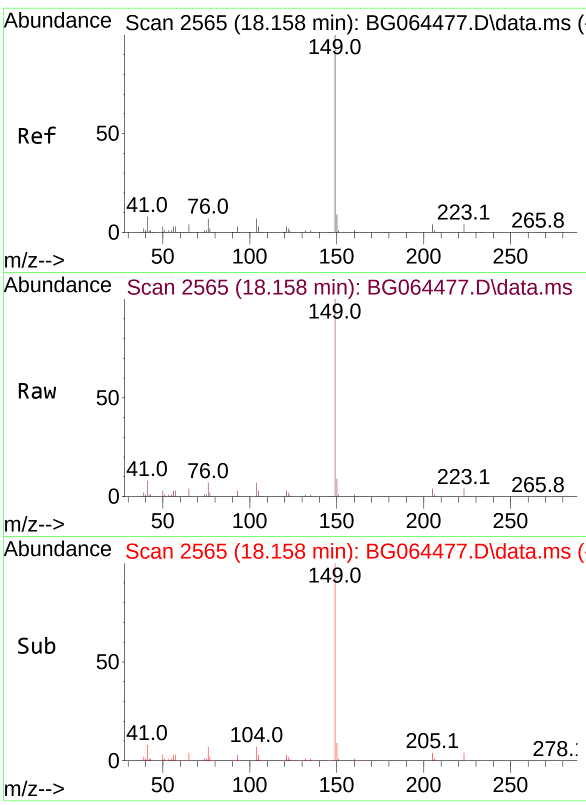
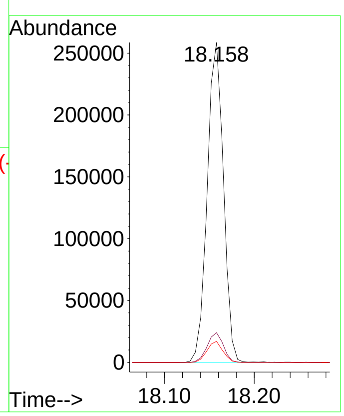
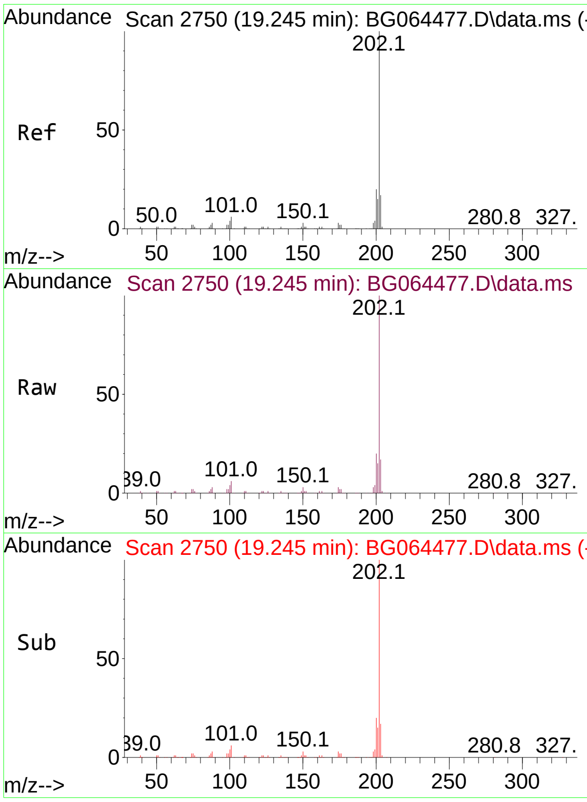



#74
Di-n-butylphthalate
Concen: 42.948 ng
RT: 18.158 min Scan# 2565
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:149 Resp: 325874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.3 | 7.4 | 11.2 |
| 104 | 6.6 | 5.3 | 7.9 |






#75
Fluoranthene
Concen: 42.577 ng
RT: 19.245 min Scan# 2750
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:202 Resp: 364596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.7 | 0.0 | 25.7 |
| 203 | 16.6 | 0.0 | 36.6 |

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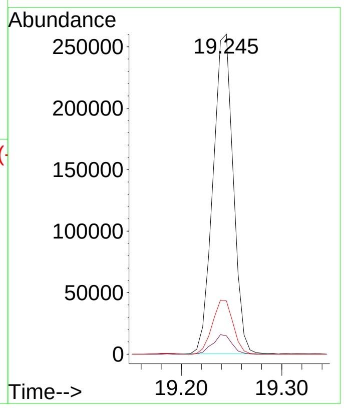
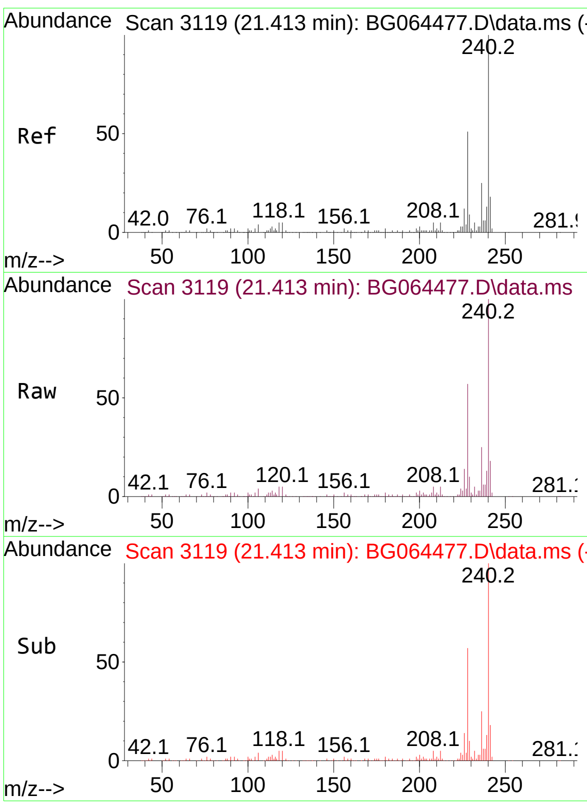
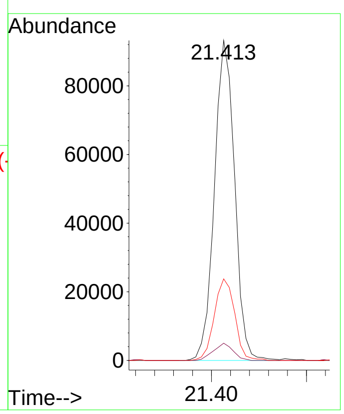


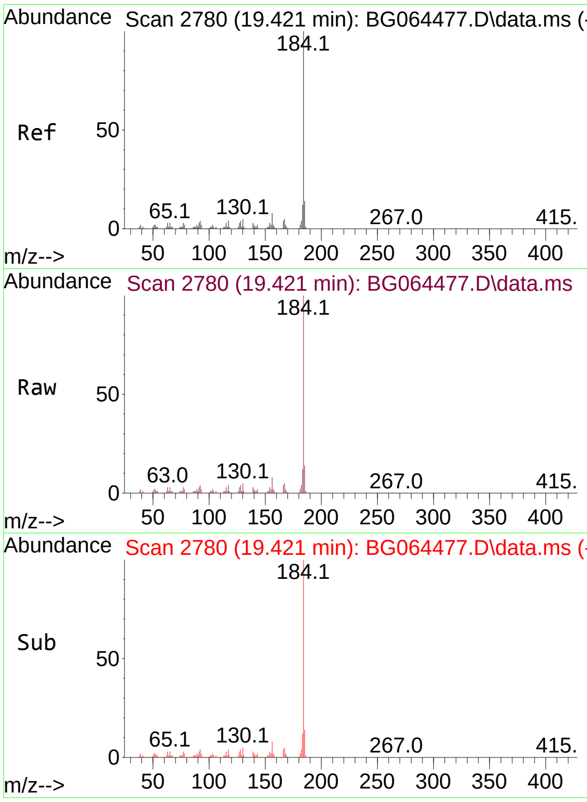

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.413 min Scan# 3119
Delta R.T. 0.003 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:240 Resp: 137806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.4 | 4.3 | 6.5 |
| 236 | 25.5 | 20.4 | 30.6 |

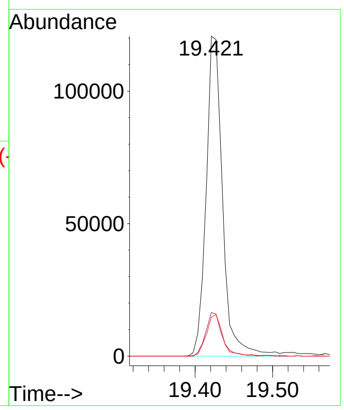


ICAL Form




#77
Benzidine
Concen: 52.157 ng
RT: 19.421 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:184 Resp: 17885
Ion Ratio Lower Upper
184 100
185 13.6 10.9 16.3
183 12.2 9.8 14.6




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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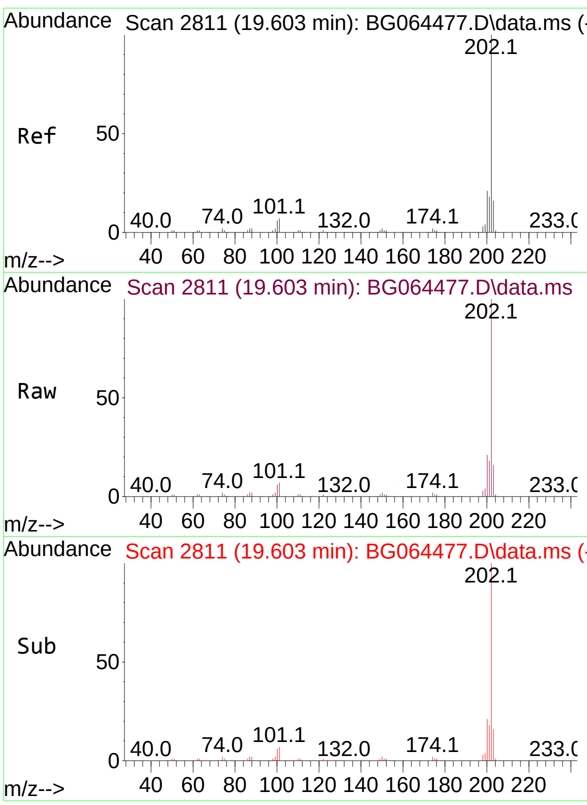
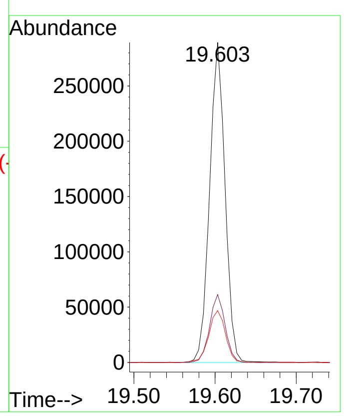
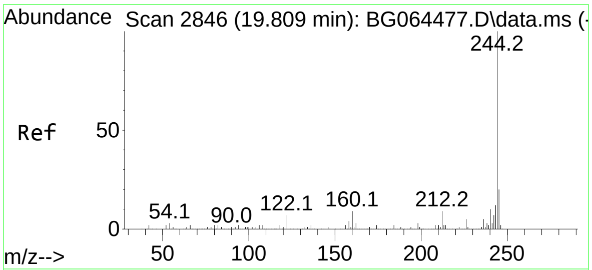


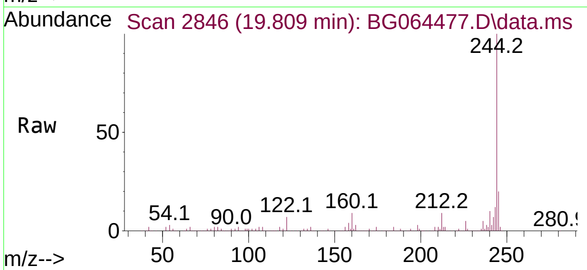

#78
Pyrene
Concen: 42.890 ng
RT: 19.603 min Scan# 2811
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

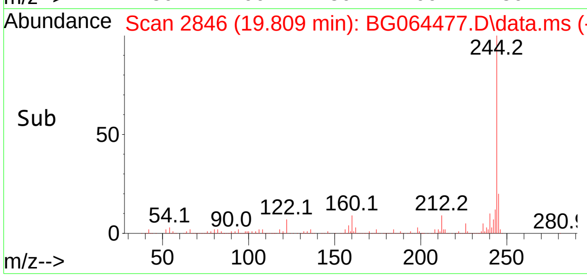
Tgt Ion:202 Resp: 383571
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 16.2 13.0 19.4



ICAL Form



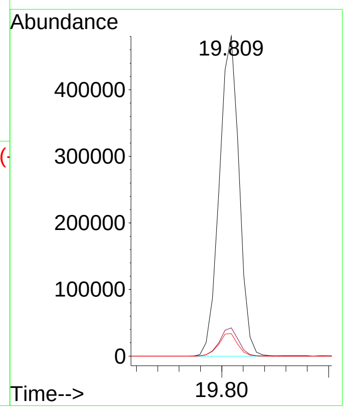




#79
Terphenyl-d14
Concen: 85.021 ng
RT: 19.809 min Scan# 28
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

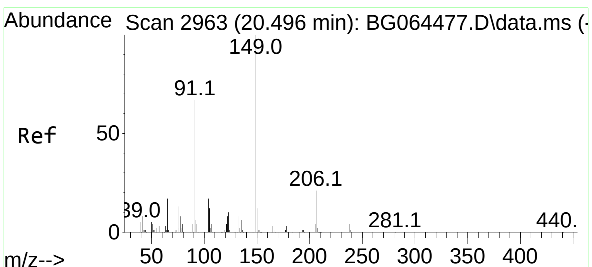
Tgt Ion:244 Resp: 61909

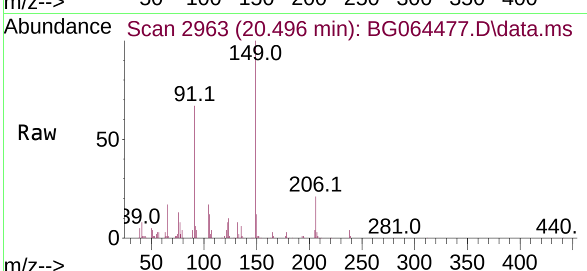
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.8 | 7.0 | 10.6 |
| 122 | 7.0 | 5.6 | 8.4 |

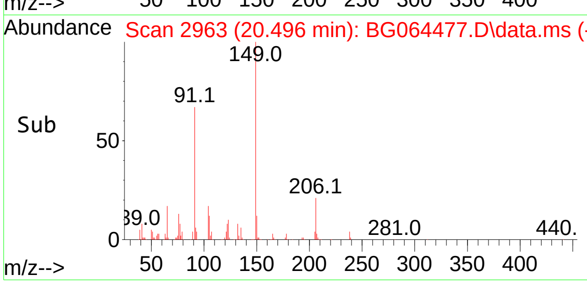



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025



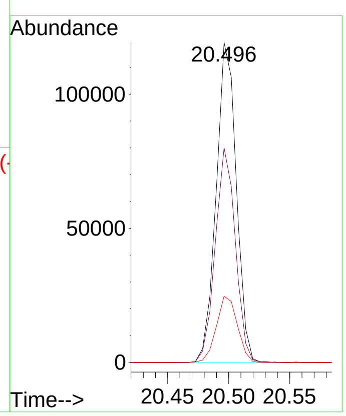



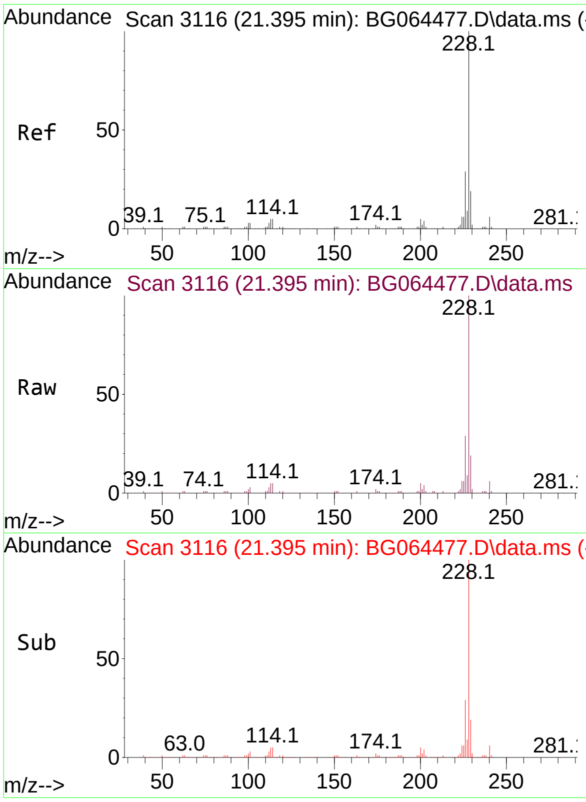

#80
Butylbenzylphthalate
Concen: 43.202 ng
RT: 20.496 min Scan# 2963
Delta R.T. -0.003 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:149 Resp: 136961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 67.1 | 53.7 | 80.5 |
| 206 | 20.7 | 16.6 | 24.8 |



ICAL Form




#81
Benzo(a)anthracene
Concen: 42.392 ng
RT: 21.395 min Scan# 31
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:228 Resp: 37300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.8 | 34.2 |
| 229 | 19.0 | 15.2 | 22.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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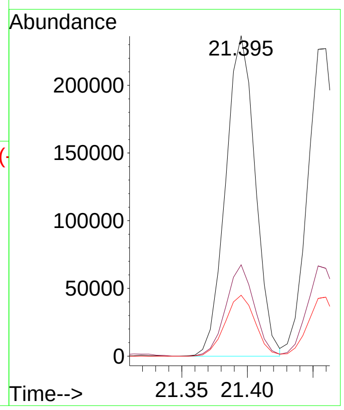
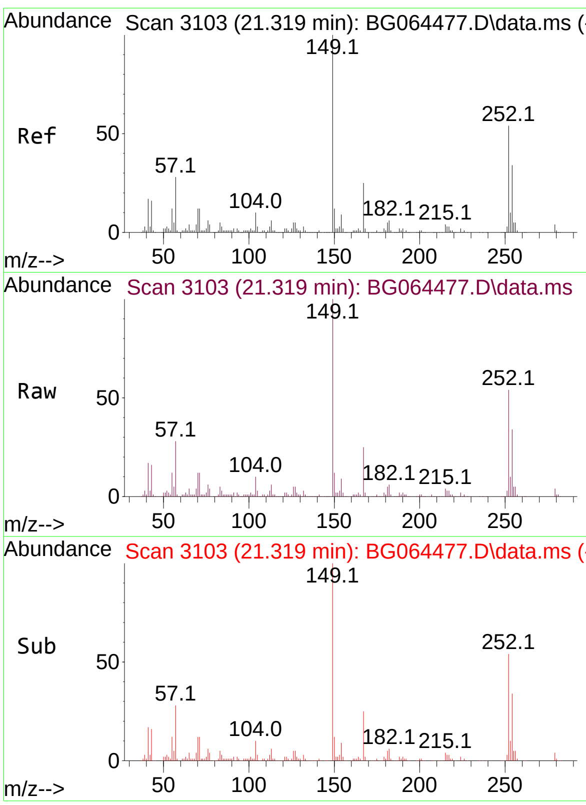
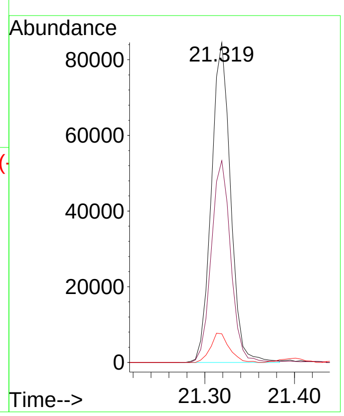


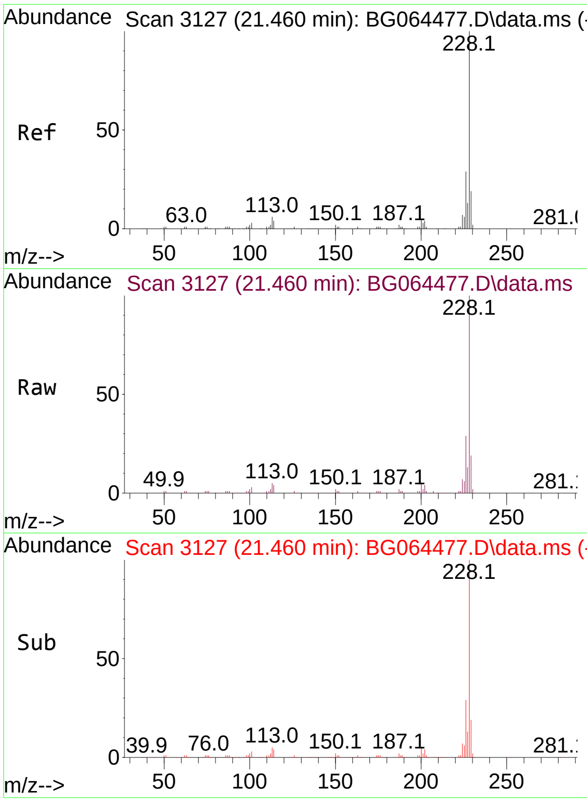

#82
3,3'-Dichlorobenzidine
Concen: 42.345 ng
RT: 21.319 min Scan# 3103
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:252 Resp: 126107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.1 | 50.5 | 75.7 |
| 126 | 8.9 | 7.1 | 10.7 |



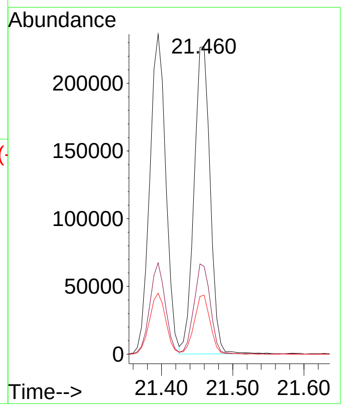
ICAL Form




#83
Chrysene
Concen:   42.849 ng
RT:  21.460 min  Scan# 31
Delta R.T.  0.008 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:228 Resp:  35755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.8 | 34.2 |
| 229 | 19.2 | 15.4 | 23.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

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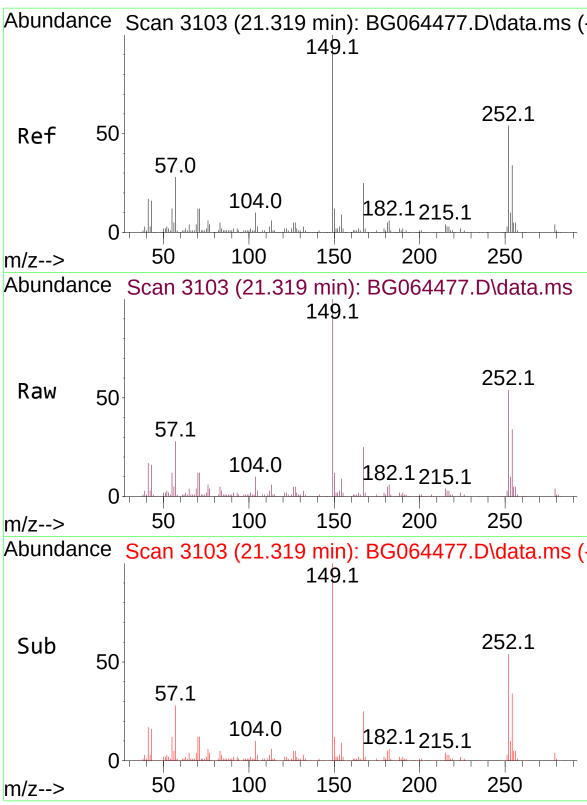
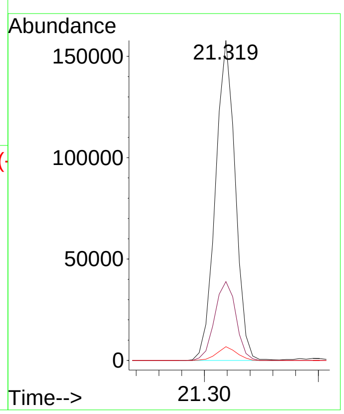
10/03/2025




#84
Bis(2-ethylhexyl)phthalate
Concen:   42.664 ng
RT:  21.319 min  Scan# 3103
Delta R.T.  0.002 min
Lab File:   BG064477.D
Acq:  2 Oct 2025  12:14

Tgt Ion:149 Resp:  190838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.6 | 19.7 | 29.5 |
| 279 | 4.3 | 3.4 | 5.2 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

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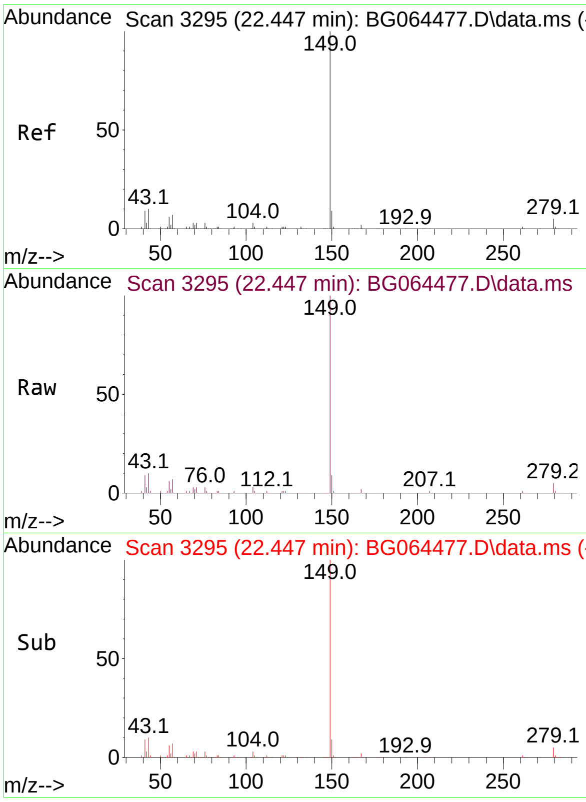
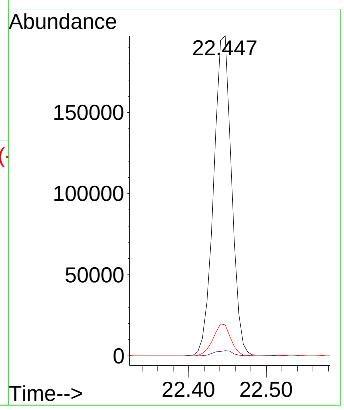
10/03/2025

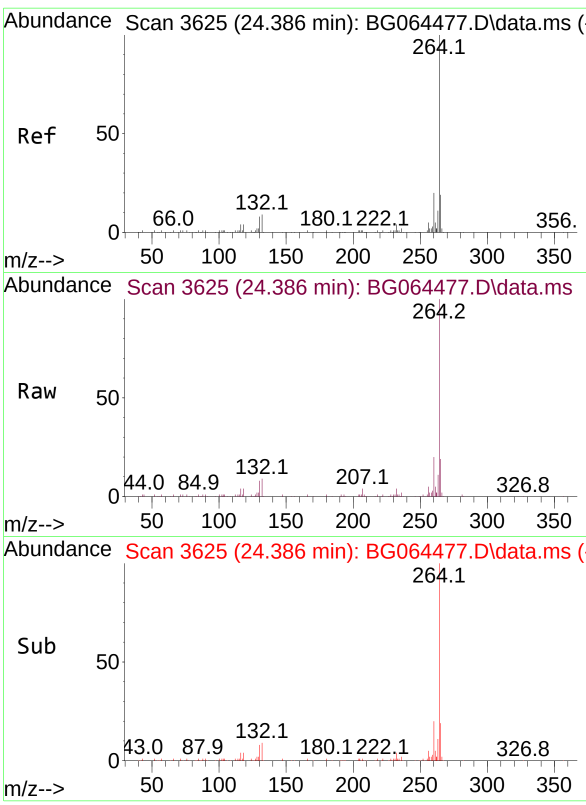



#85
Di-n-octyl phthalate
Concen: 42.277 ng
RT: 22.447 min Scan# 32
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:149 Resp: 317830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 9.9 | 7.9 | 11.9 |

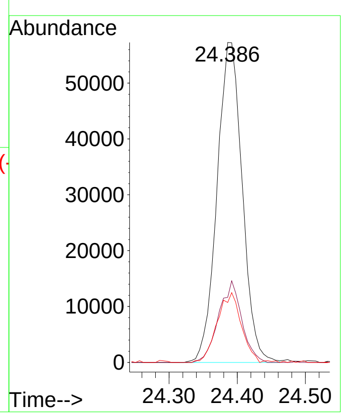


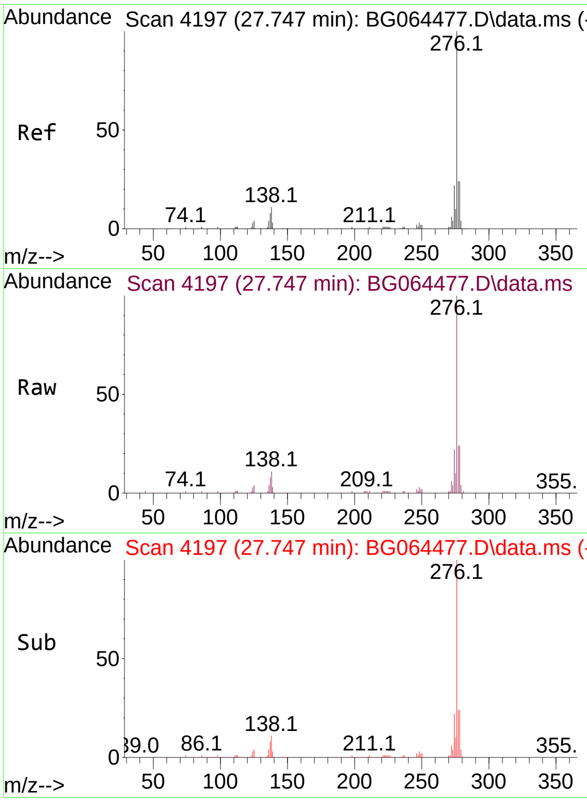

#86
Perylene-d12
Concen: 20.000 ng
RT: 24.386 min Scan# 3625
Delta R.T. -0.003 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:264 Resp: 147142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 20.3 | 16.2 | 24.4 |
| 265 | 18.7 | 15.0 | 22.4 |



ICAL Form




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.906 ng
RT: 27.747 min Scan# 41
Delta R.T. 0.014 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

Tgt Ion:276 Resp: 439448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.5 | 10.8 | 16.2 |
| 277 | 25.4 | 20.3 | 30.5 |

**Manual Integrations APPROVED**

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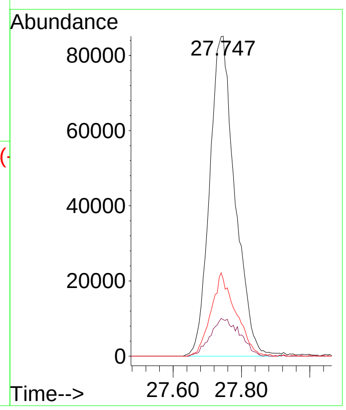
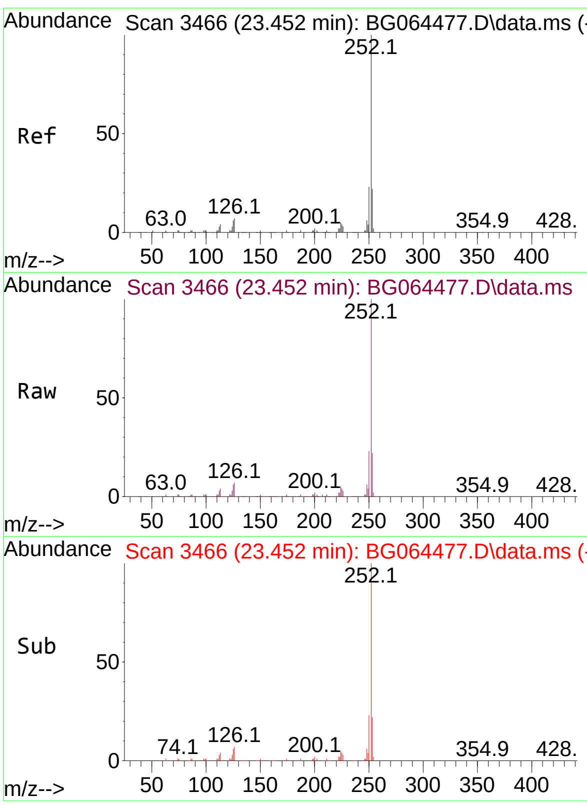
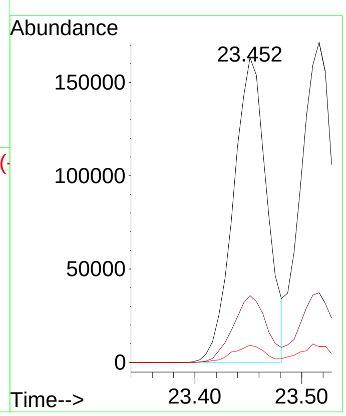



#88
Benzo(b)fluoranthene
Concen: 42.621 ng
RT: 23.452 min Scan# 3466
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:252 Resp: 356780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.5 | 26.3 |
| 125 | 5.6 | 4.5 | 6.7 |

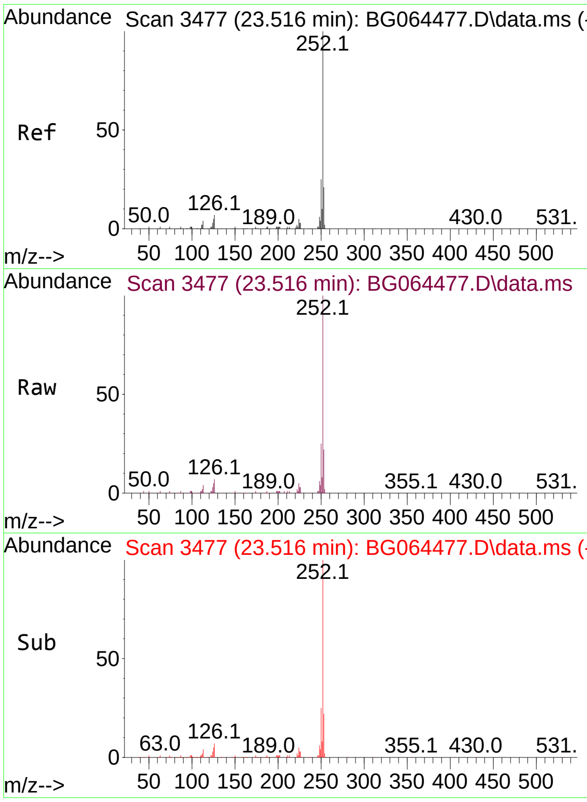


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

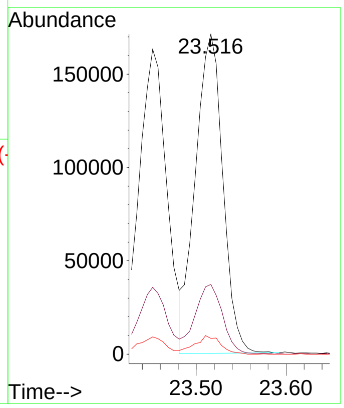
10/03/2025

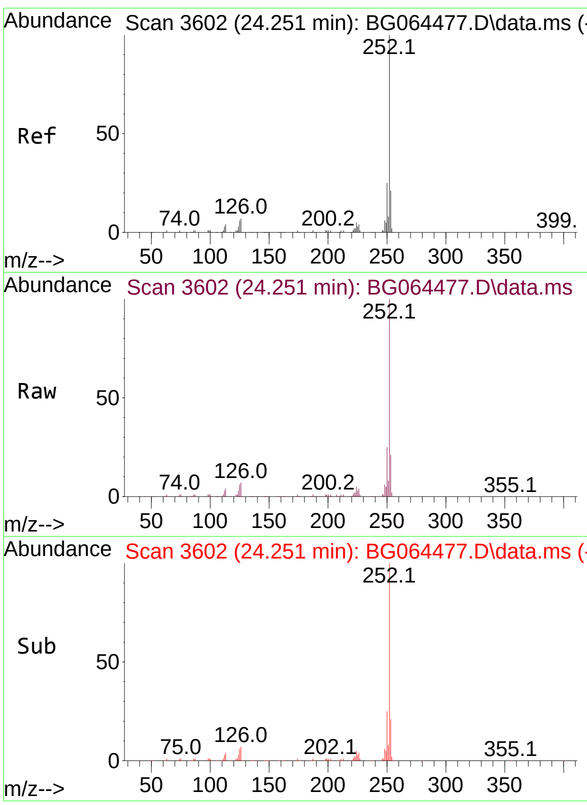



#89
Benzo(k)fluoranthene
Concen: 43.050 ng
RT: 23.516 min Scan# 34
Delta R.T. 0.008 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:252 Resp: 36294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.4 | 26.2 |
| 125 | 5.0 | 4.0 | 6.0 |

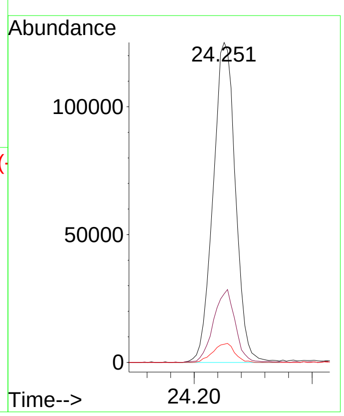


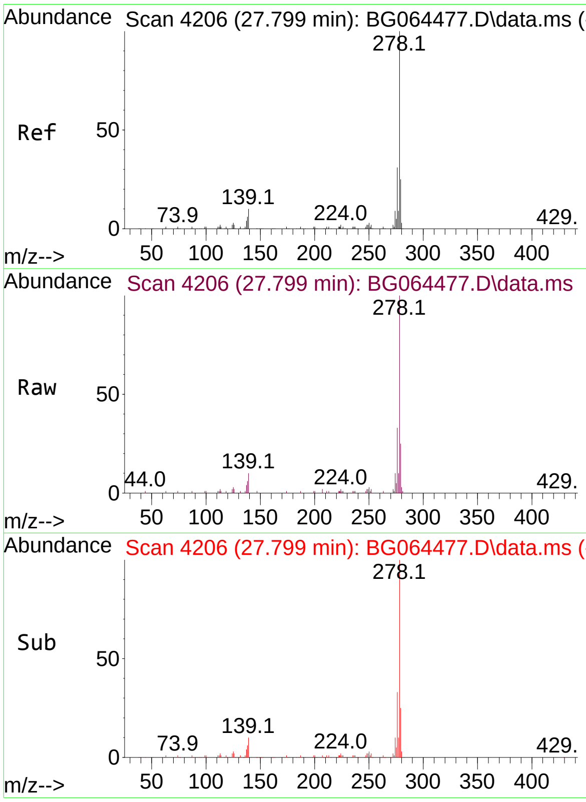




#90
Benzo(a)pyrene
Concen: 42.800 ng
RT: 24.251 min Scan# 3602
Delta R.T. 0.002 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:252 Resp: 330197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.4 | 17.1 | 25.7 |
| 125 | 5.7 | 4.6 | 6.8 |






#91
Dibenzo(a,h)anthracene
Concen: 42.755 ng
RT: 27.799 min Scan# 42
Delta R.T. 0.020 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:278 Resp: 350192

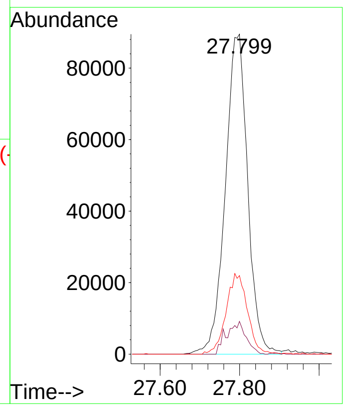
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 10.2 | 8.2 | 12.2 |
| 279 | 24.5 | 19.6 | 29.4 |

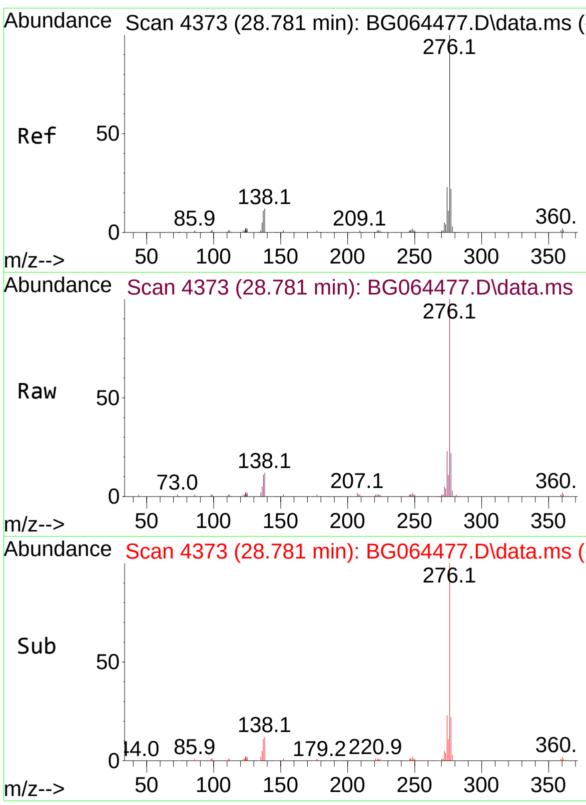
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

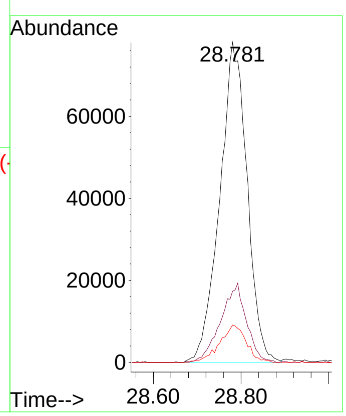



#92
Benzo(g,h,i)perylene
Concen: 42.613 ng
RT: 28.781 min Scan# 4373
Delta R.T. 0.014 min
Lab File: BG064477.D
Acq: 2 Oct 2025 12:14

Tgt Ion:276 Resp: 339180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.2 | 17.8 | 26.6 |
| 138 | 11.7 | 9.4 | 14.0 |



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064478.D
Acq On : 2 Oct 2025 12:55
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.825 | 152 | 23869 | 20.000 ng | 0.00 |
| 21) Naphthalene-d8 | 10.610 | 136 | 102736 | 20.000 ng | 0.00 |
| 39) Acenaphthene-d10 | 14.452 | 164 | 77950 | 20.000 ng | 0.00 |
| 64) Phenanthrene-d10 | 17.190 | 188 | 200361 | 20.000 ng | 0.00 |
| 76) Chrysene-d12 | 21.415 | 240 | 197724 | 20.000 ng | 0.00 |
| 86) Perylene-d12 | 24.394 | 264 | 211036 | 20.000 ng | # 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 5.410 | 112 | 127857 | 99.134 ng | 0.00 |
| 7) Phenol-d6 | 7.002 | 99 | 171087 | 98.712 ng | 0.02 |
| 23) Nitrobenzene-d5 | 8.982 | 82 | 189687 | 99.278 ng | 0.02 |
| 42) 2,4,6-Tribromophenol | 15.945 | 330 | 141783 | 100.345 ng | 0.01 |
| 45) 2-Fluorobiphenyl | 13.078 | 172 | 516540 | 97.676 ng | 0.01 |
| 79) Terphenyl-d14 | 19.811 | 244 | 1018211 | 97.457 ng | 0.00 |
| **Target Compounds** | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.324 | 88 | 23748 | 46.551 ng | 93 |
| 3) Pyridine | 3.718 | 79 | 65738 | 47.947 ng | 95 |
| 4) n-Nitrosodimethylamine | 3.636 | 42 | 49695 | 49.999 ng | 100 |
| 6) Aniline | 7.155 | 93 | 105749 | 48.370 ng | 96 |
| 8) 2-Chlorophenol | 7.390 | 128 | 75448 | 47.639 ng | 94 |
| 9) Benzaldehyde | 6.967 | 77 | 68724 | 44.668 ng | 97 |
| 10) Phenol | 7.026 | 94 | 90535 | 49.517 ng | 94 |
| 11) bis(2-Chloroethyl)ether | 7.249 | 93 | 59666 | 48.187 ng | 96 |
| 12) 1,3-Dichlorobenzene | 7.713 | 146 | 82662 | 47.713 ng | 95 |
| 13) 1,4-Dichlorobenzene | 7.860 | 146 | 84794 | 48.767 ng | 99 |
| 14) 1,2-Dichlorobenzene | 8.177 | 146 | 82182 | 47.956 ng | 98 |
| 15) Benzyl Alcohol | 8.060 | 79 | 80094 | 50.179 ng | 93 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.348 | 45 | 98476 | 49.340 ng | 95 |
| 17) 2-Methylphenol | 8.271 | 107 | 64206 | 48.496 ng | 96 |
| 18) Hexachloroethane | 8.900 | 117 | 33535 | 48.862 ng | 95 |
| 19) n-Nitroso-di-n-propyla... | 8.636 | 70 | 57232 | 49.375 ng | # 92 |
| 20) 3+4-Methylphenols | 8.600 | 107 | 89015 | 48.180 ng | 95 |
| 22) Acetophenone | 8.642 | 105 | 125989 | 50.649 ng | # 98 |
| 24) Nitrobenzene | 9.023 | 77 | 93559 | 49.104 ng | 98 |
| 25) Isophorone | 9.546 | 82 | 169476 | 48.963 ng | # 97 |
| 26) 2-Nitrophenol | 9.729 | 139 | 47538 | 50.130 ng | 95 |
| 27) 2,4-Dimethylphenol | 9.793 | 122 | 73076 | 50.454 ng | 95 |
| 28) bis(2-Chloroethoxy)met... | 10.028 | 93 | 86333 | 48.931 ng | 99 |
| 29) 2,4-Dichlorophenol | 10.263 | 162 | 82797 | 49.435 ng | 96 |
| 30) 1,2,4-Trichlorobenzene | 10.481 | 180 | 87173 | 47.734 ng | 96 |
| 31) Naphthalene | 10.663 | 128 | 255453 | 48.286 ng | 98 |
| 32) Benzoic acid | 9.975 | 122 | 60774m | 54.652 ng | |
| 33) 4-Chloroaniline | 10.768 | 127 | 99704 | 49.113 ng | 97 |
| 34) Hexachlorobutadiene | 10.951 | 225 | 76081 | 48.646 ng | 97 |
| 35) Caprolactam | 11.562 | 113 | 28417 | 49.561 ng | 92 |
| 36) 4-Chloro-3-methylphenol | 11.902 | 107 | 100226 | 49.208 ng | 98 |
| 37) 2-Methylnaphthalene | 12.273 | 142 | 199899 | 49.224 ng | 96 |
| 38) 1-Methylnaphthalene | 12.490 | 142 | 192614 | 47.567 ng | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 12.643 | 216 | 124648 | 49.525 ng | 98 |
| 41) Hexachlorocyclopentadiene | 12.625 | 237 | 69372 | 52.692 ng | 93 |
| 43) 2,4,6-Trichlorophenol | 12.884 | 196 | 81144 | 50.434 ng | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064478.D
Acq On : 2 Oct 2025 12:55
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.960 | 196 | 90524 | 50.396 ng | | 98 |
| 46) 1,1'-Biphenyl | 13.289 | 154 | 279537 | 49.860 ng | | 97 |
| 47) 2-Chloronaphthalene | 13.330 | 162 | 205802 | 49.166 ng | | 99 |
| 48) 2-Nitroaniline | 13.530 | 65 | 75138 | 52.594 ng | | 94 |
| 49) Acenaphthylene | 14.170 | 152 | 306740 | 49.365 ng | | 98 |
| 50) Dimethylphthalate | 13.912 | 163 | 298441 | 48.884 ng | | 98 |
| 51) 2,6-Dinitrotoluene | 14.029 | 165 | 64970 | 51.087 ng | | 93 |
| 52) Acenaphthene | 14.517 | 154 | 215606 | 49.943 ng | | 97 |
| 53) 3-Nitroaniline | 14.358 | 138 | 61347 | 52.305 ng | | 92 |
| 54) 2,4-Dinitrophenol | 14.564 | 184 | 44469 | 48.222 ng | | 89 |
| 55) Dibenzofuran | 14.852 | 168 | 354924 | 49.793 ng | | 99 |
| 56) 4-Nitrophenol | 14.676 | 139 | 49950 | 54.092 ng | | 94 |
| 57) 2,4-Dinitrotoluene | 14.817 | 165 | 99930 | 51.401 ng | | 95 |
| 58) Fluorene | 15.498 | 166 | 290041 | 48.945 ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.081 | 232 | 92595 | 50.511 ng | | 98 |
| 60) Diethylphthalate | 15.281 | 149 | 326367 | 49.833 ng | | 98 |
| 61) 4-Chlorophenyl-phenyle... | 15.492 | 204 | 159141 | 49.191 ng | | 96 |
| 62) 4-Nitroaniline | 15.528 | 138 | 67296 | 55.050 ng | | 89 |
| 63) Azobenzene | 15.786 | 77 | 252408 | 49.764 ng | | 97 |
| 65) 4,6-Dinitro-2-methylph... | 15.580 | 198 | 69009 | 49.467 ng | | 97 |
| 66) n-Nitrosodiphenylamine | 15.710 | 169 | 254244 | 47.518 ng | | 97 |
| 67) 4-Bromophenyl-phenylether | 16.385 | 248 | 112356 | 47.653 ng | | 92 |
| 68) Hexachlorobenzene | 16.503 | 284 | 130063 | 48.208 ng | | 95 |
| 69) Atrazine | 16.662 | 200 | 116098 | 48.772 ng | | 99 |
| 70) Pentachlorophenol | 16.850 | 266 | 83126 | 52.695 ng | | 96 |
| 71) Phenanthrene | 17.237 | 178 | 501941 | 47.904 ng | | 99 |
| 72) Anthracene | 17.325 | 178 | 501276 | 47.688 ng | | 98 |
| 73) Carbazole | 17.596 | 167 | 439490 | 48.370 ng | | 99 |
| 74) Di-n-butylphthalate | 18.160 | 149 | 538886 | 48.585 ng | | 100 |
| 75) Fluoranthene | 19.241 | 202 | 597309 | 47.718 ng | | 99 |
| 77) Benzidine | 19.423 | 184 | 266730 | 54.213 ng | | 100 |
| 78) Pyrene | 19.605 | 202 | 613709 | 47.828 ng | | 98 |
| 80) Butylbenzylphthalate | 20.498 | 149 | 221172 | 48.623 ng | | 95 |
| 81) Benzo(a)anthracene | 21.397 | 228 | 611850 | 48.464 ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 21.321 | 252 | 208942 | 48.899 ng | | 99 |
| 83) Chrysene | 21.462 | 228 | 579585 | 48.408 ng | | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 21.321 | 149 | 317005 | 49.393 ng | | 98 |
| 85) Di-n-octyl phthalate | 22.443 | 149 | 530469 | 49.179 ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.754 | 276 | 731852 | 49.822 ng | # | 96 |
| 88) Benzo(b)fluoranthene | 23.459 | 252 | 602249 | 50.163 ng | | 98 |
| 89) Benzo(k)fluoranthene | 23.518 | 252 | 592576 | 49.006 ng | | 99 |
| 90) Benzo(a)pyrene | 24.259 | 252 | 543872 | 49.152 ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 27.807 | 278 | 588448 | 50.092 ng | | 95 |
| 92) Benzo(g,h,i)perylene | 28.806 | 276 | 564079 | 49.412 ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

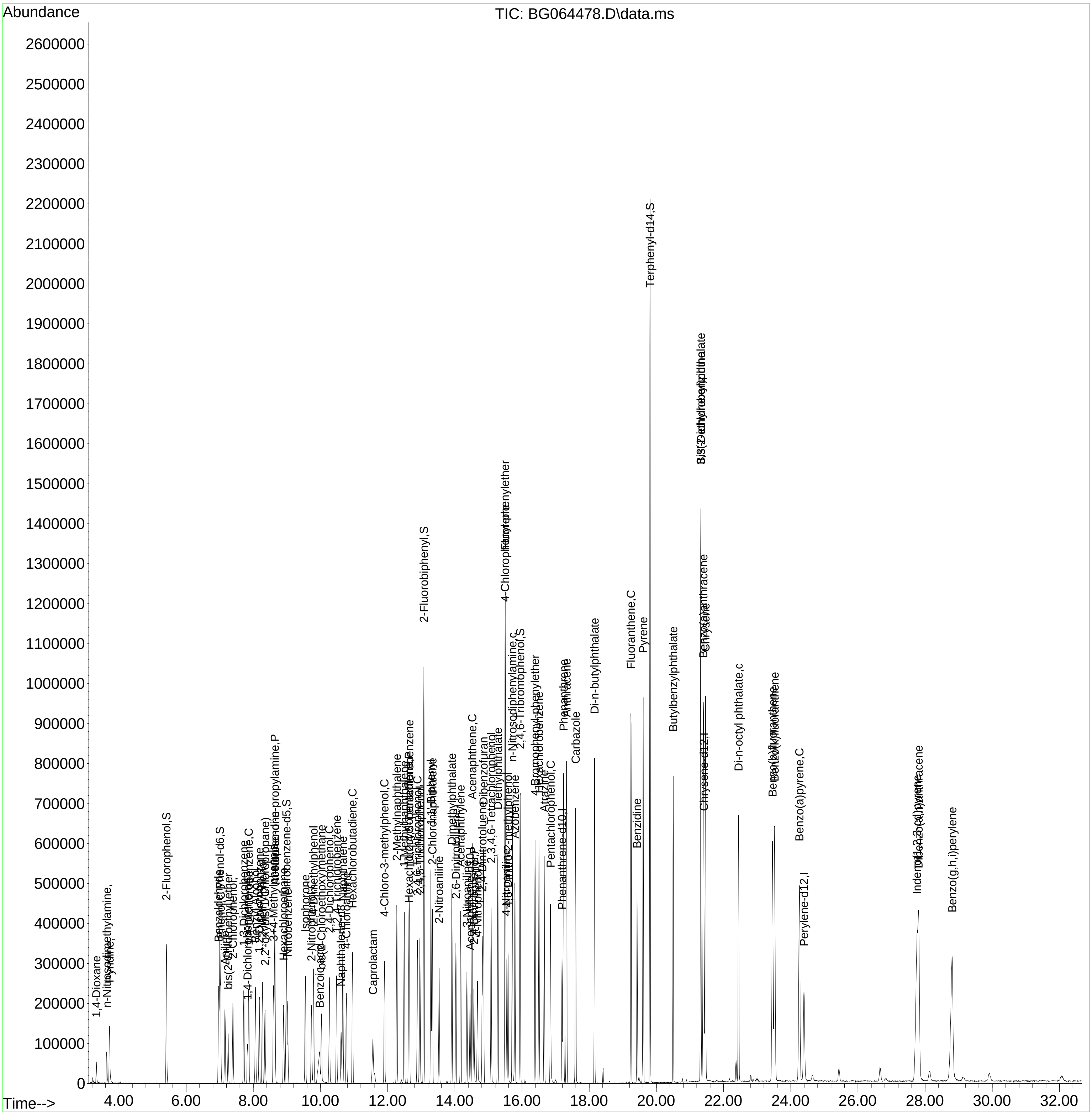
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064478.D
Acq On : 2 Oct 2025 12:55
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 02 16:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

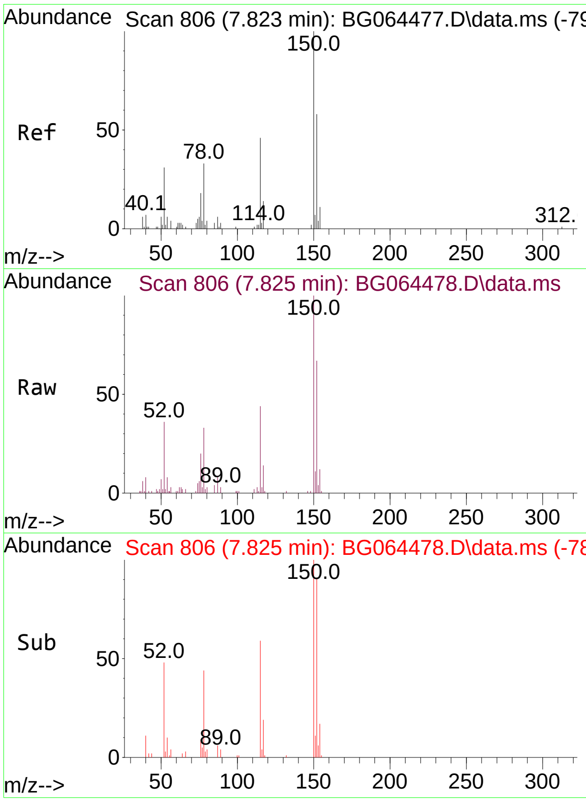


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

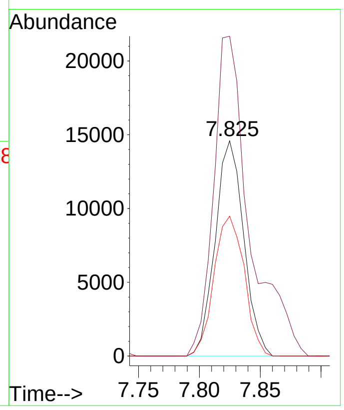
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

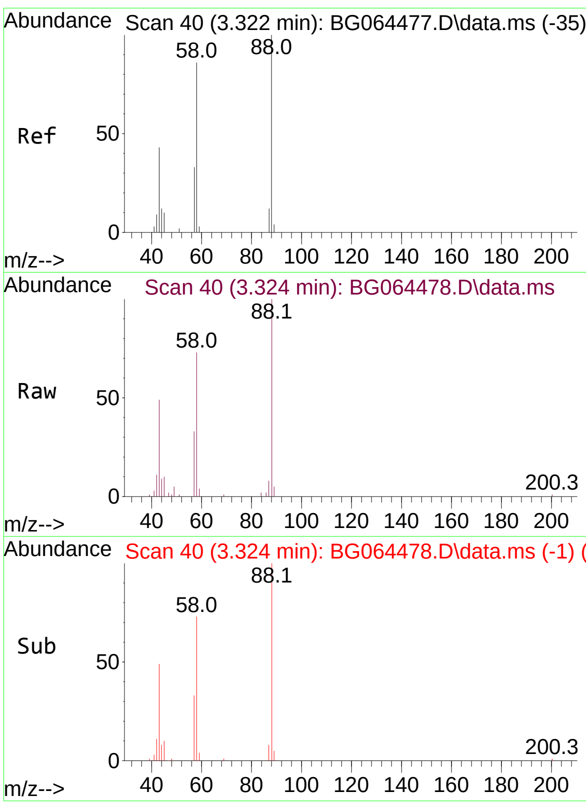



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.825 min Scan# 8
Delta R.T. 0.005 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:152 Resp: 23869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.6 | 138.6 | 207.8 |
| 115 | 65.0 | 63.4 | 95.2 |

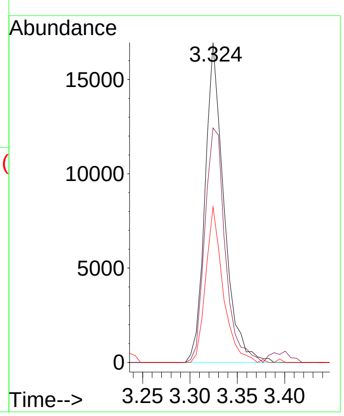



#2
1,4-Dioxane
Concen: 46.551 ng
RT: 3.324 min Scan# 40
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 88 Resp: 23748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.5 | 69.8 | 104.6 |
| 43 | 44.5 | 37.4 | 56.0 |

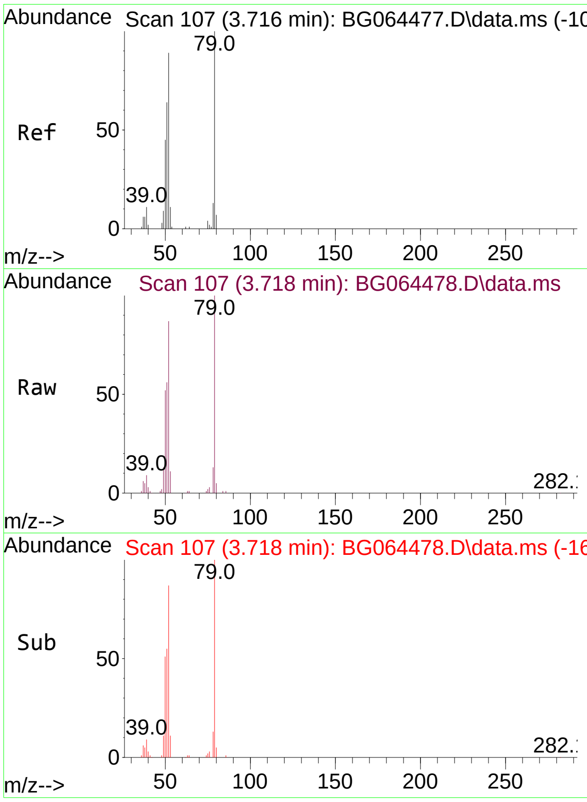


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

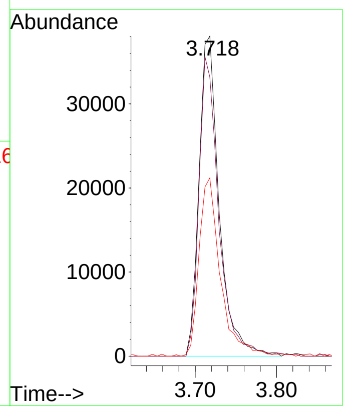
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

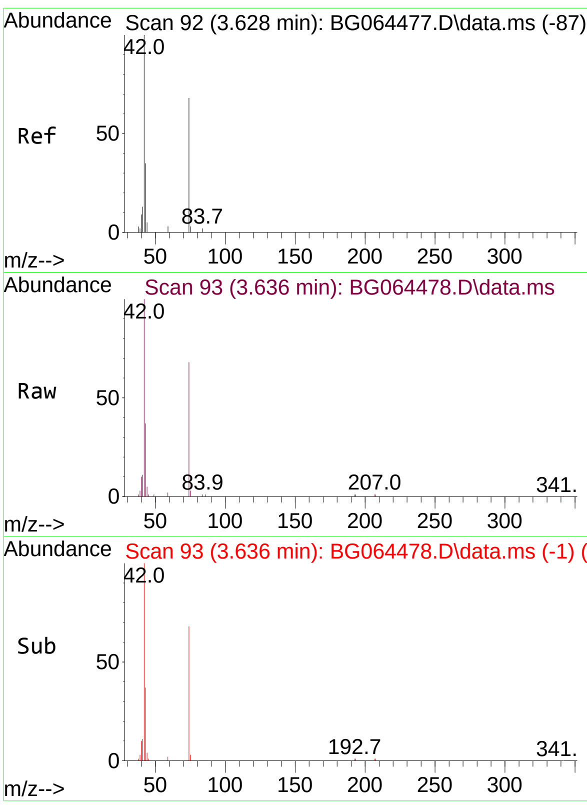



#3
Pyridine
Concen: 47.947 ng
RT: 3.718 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 79 Resp: 6573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 87.2 | 71.0 | 106.4 |
| 51 | 55.7 | 51.0 | 76.6 |

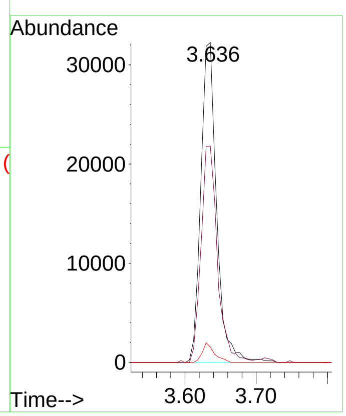


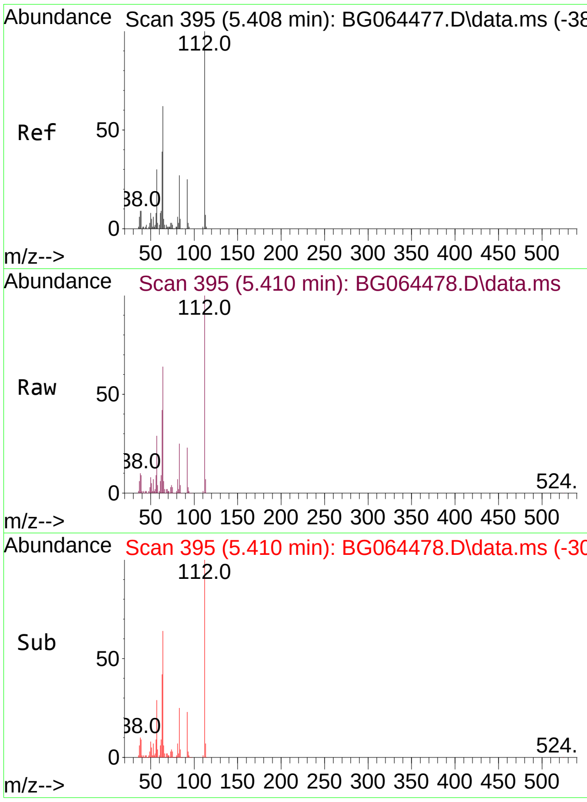




#4
n-Nitrosodimethylamine
Concen: 49.999 ng
RT: 3.636 min Scan# 93
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 42 Resp: 49695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 67.6 | 54.2 | 81.4 |
| 44 | 4.8 | 4.2 | 6.2 |






#5
2-Fluorophenol
Concen:   99.134 ng
RT:   5.410 min   Scan# 39
Delta R.T.   0.004 min
Lab File:   BG064478.D
Acq:   2 Oct 2025   12:55

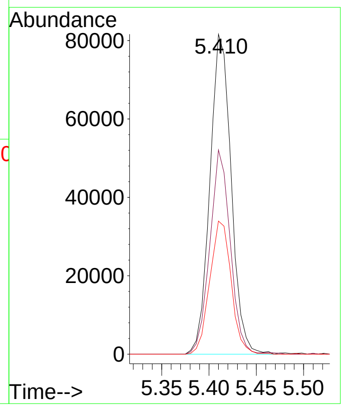
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

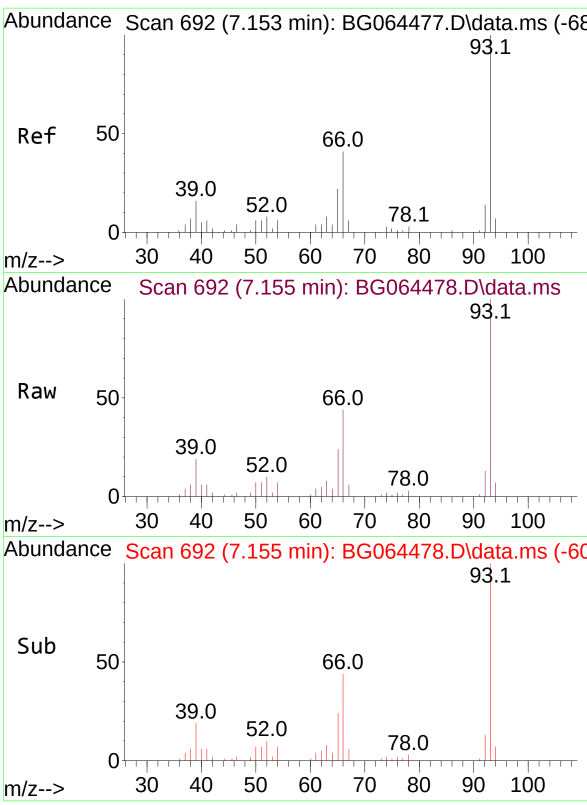
Tgt Ion:112 Resp:   12785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.8 | 49.8 | 74.8 |
| 63 | 41.6 | 31.3 | 46.9 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

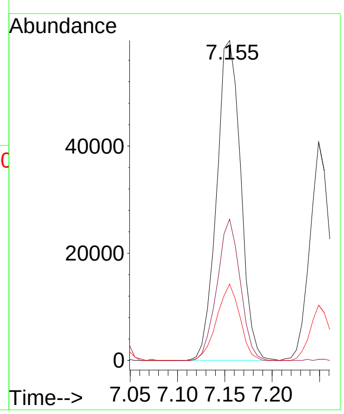



#6
Aniline
Concen:   48.370 ng
RT:   7.155 min   Scan# 692
Delta R.T.   0.010 min
Lab File:   BG064478.D
Acq:   2 Oct 2025   12:55

Tgt Ion: 93 Resp:   105749

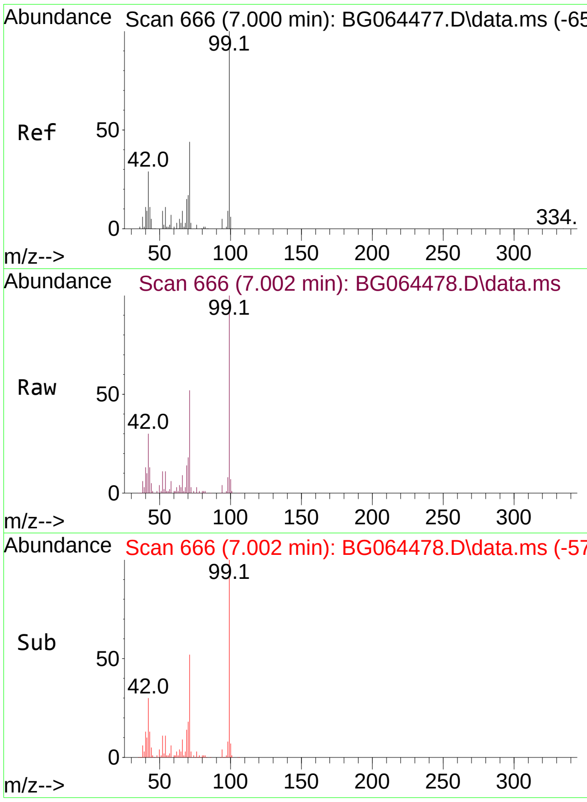
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 44.1 | 33.0 | 49.4 |
| 65 | 23.8 | 17.5 | 26.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

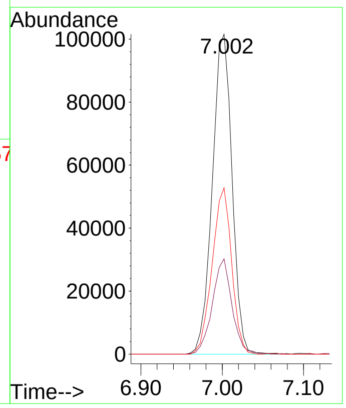
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

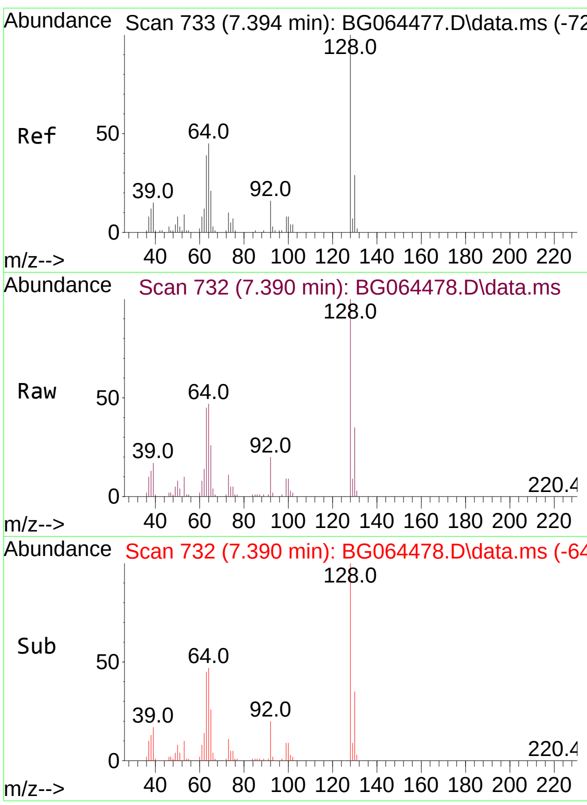



#7
Phenol-d6
Concen: 98.712 ng
RT: 7.002 min Scan# 6
Delta R.T. 0.016 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 99 Resp: 17108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 29.8 | 22.9 | 34.3 |
| 71 | 52.0 | 35.4 | 53.2 |

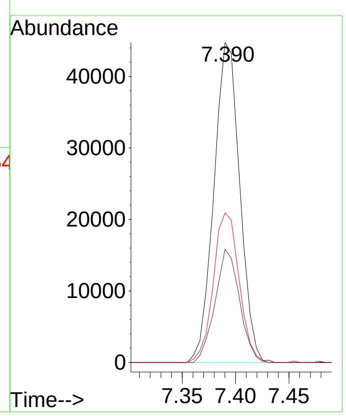


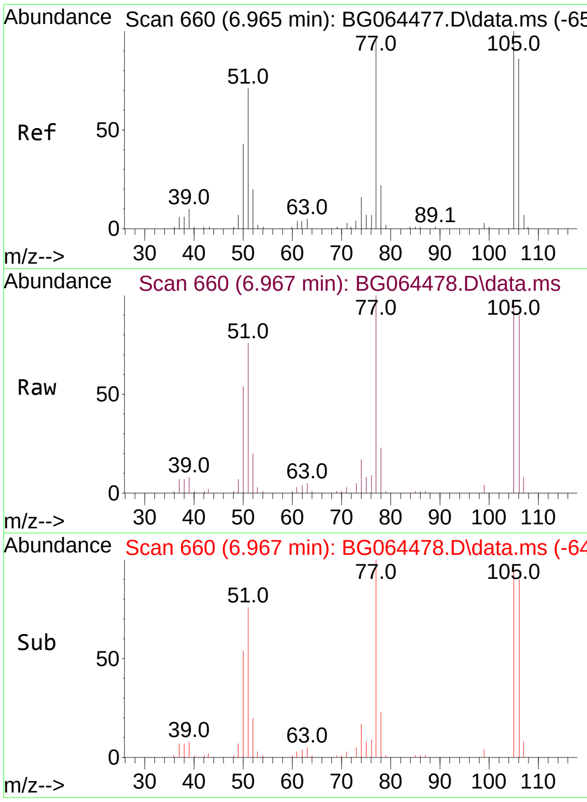




#8
2-Chlorophenol
Concen: 47.639 ng
RT: 7.390 min Scan# 732
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:128 Resp: 75448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 35.4 | 9.2 | 49.2 |
| 64 | 46.7 | 25.5 | 65.5 |

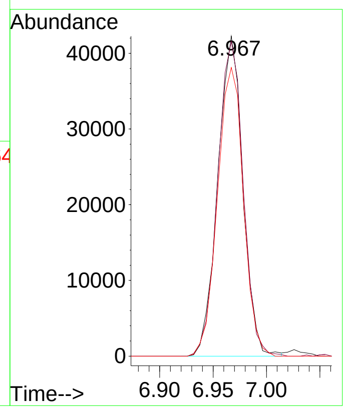





#9
Benzaldehyde
Concen: 44.668 ng
RT: 6.967 min Scan# 66
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

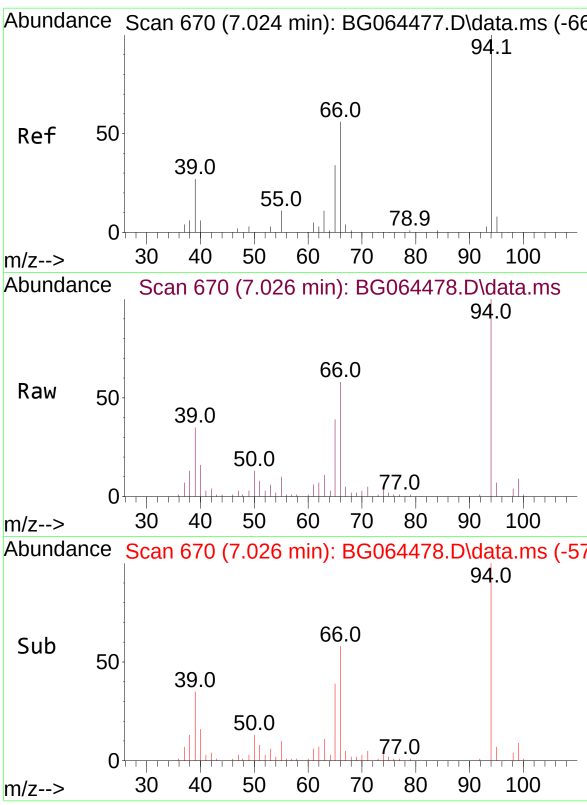
Tgt Ion: 77 Resp: 68724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 98.3 | 83.7 | 123.7 |
| 106 | 90.2 | 69.4 | 109.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

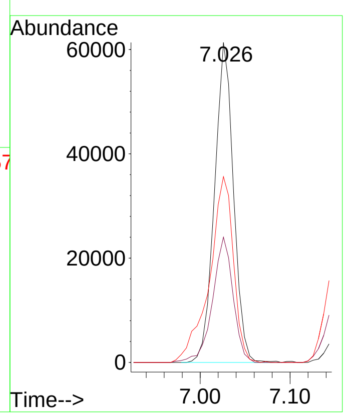
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

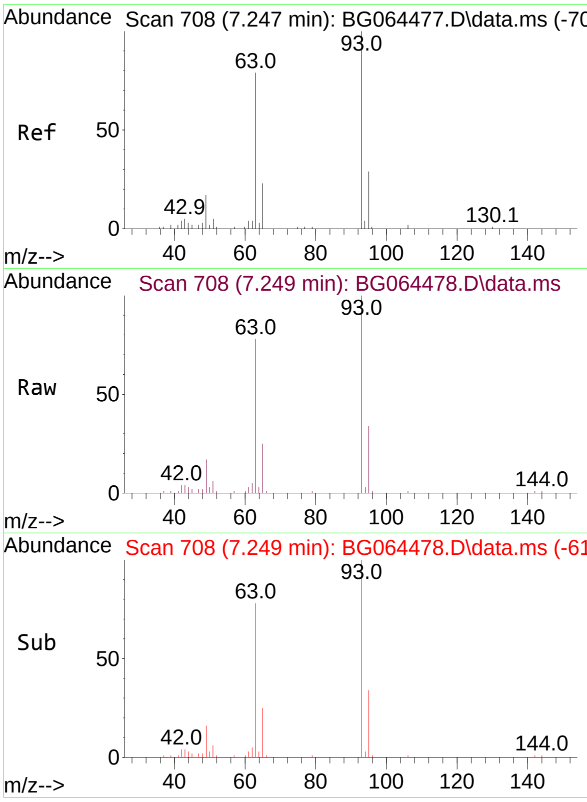



#10
Phenol
Concen: 49.517 ng
RT: 7.026 min Scan# 670
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 94 Resp: 90535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 39.1 | 14.8 | 54.8 |
| 66 | 58.0 | 41.4 | 81.4 |






#11
bis(2-Chloroethyl)ether
Concen: 48.187 ng
RT: 7.249 min Scan# 7
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

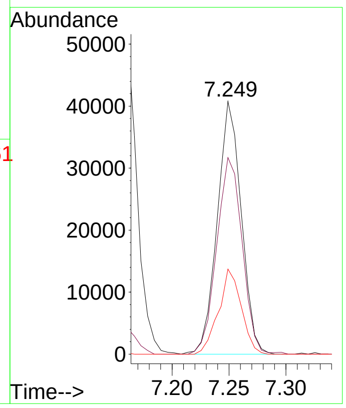
Tgt Ion: 93 Resp: 5966

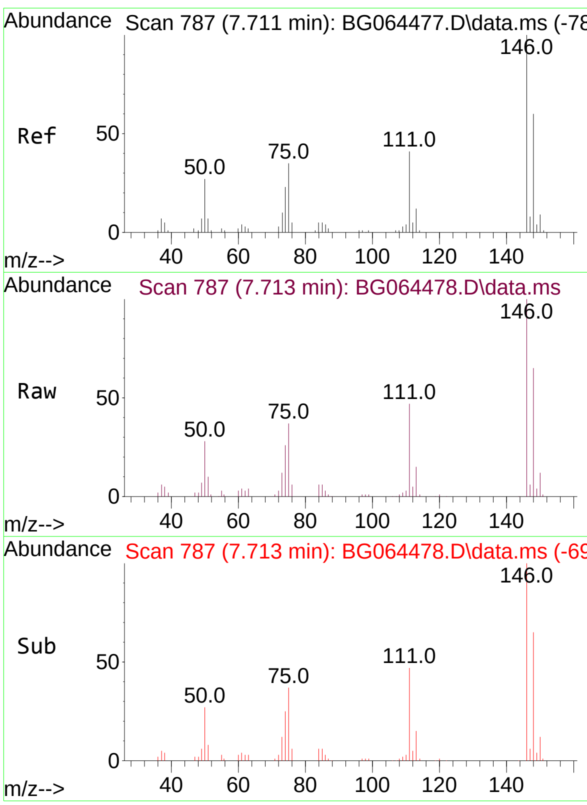
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 77.8 | 59.5 | 99.5 |
| 95 | 33.7 | 8.8 | 48.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

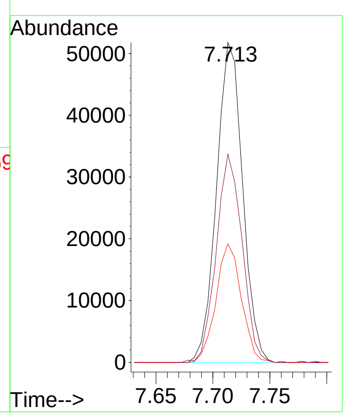


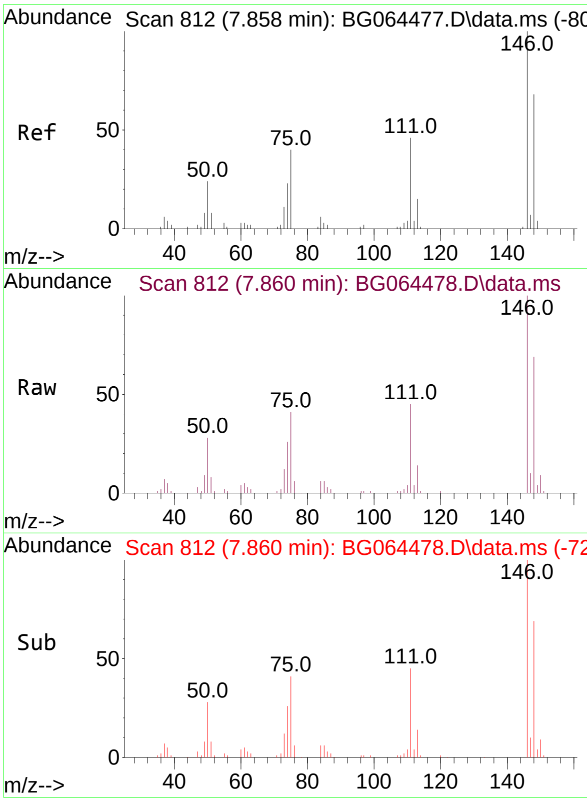




#12
1,3-Dichlorobenzene
Concen: 47.713 ng
RT: 7.713 min Scan# 787
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:146 Resp: 82662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.1 | 48.4 | 72.6 |
| 75 | 37.0 | 28.3 | 42.5 |






#13
1,4-Dichlorobenzene
Concen: 48.767 ng
RT: 7.860 min Scan# 81
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:146 Resp: 8479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 69.3 | 54.4 | 81.6 |
| 111 | 45.4 | 36.5 | 54.7 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
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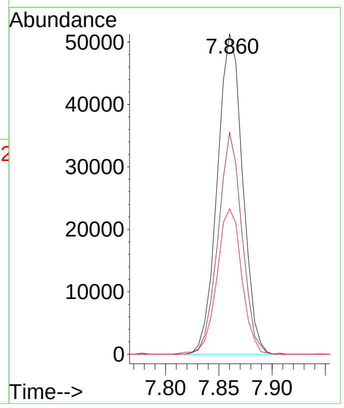
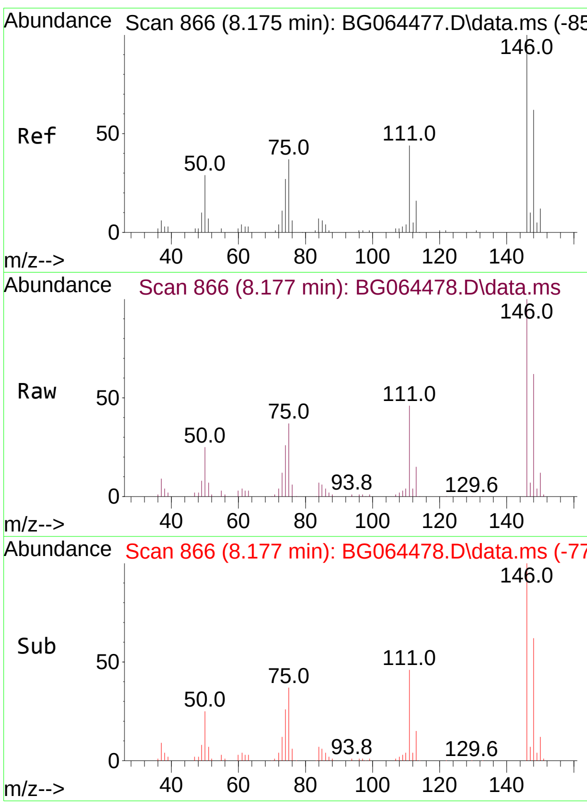
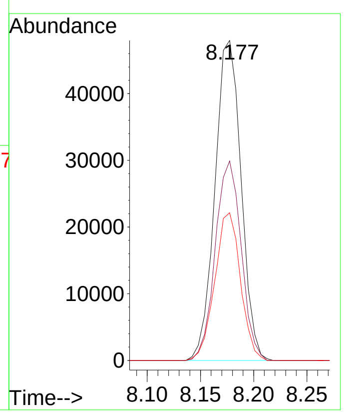



#14
1,2-Dichlorobenzene
Concen: 47.956 ng
RT: 8.177 min Scan# 866
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:146 Resp: 82182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.3 | 50.0 | 75.0 |
| 111 | 46.1 | 35.0 | 52.4 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
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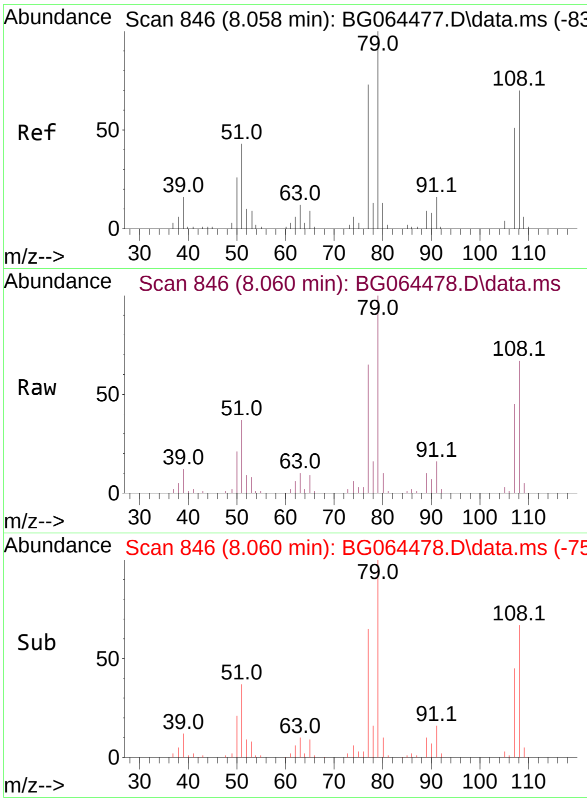
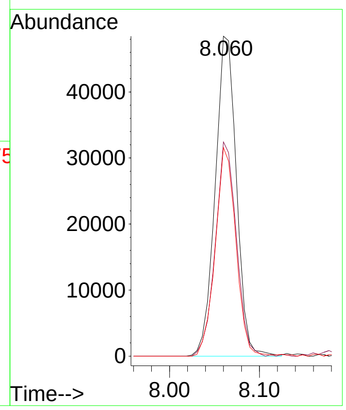
Supervised By :Jagrut Upadhyay 10/03/2025

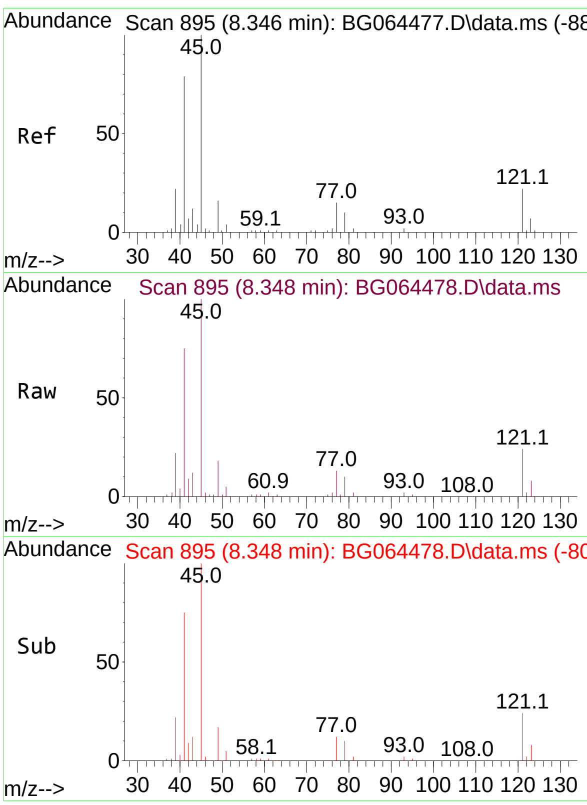



#15
Benzyl Alcohol
Concen: 50.179 ng
RT: 8.060 min Scan# 84
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 79 Resp: 8009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 66.9 | 56.4 | 84.6 |
| 77 | 65.1 | 58.3 | 87.5 |

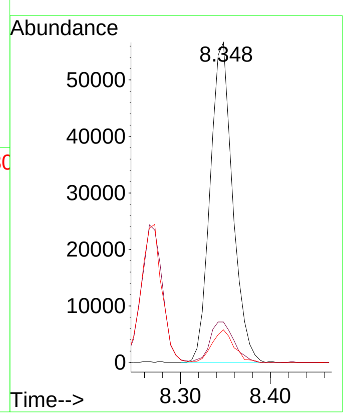



#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.340 ng
RT: 8.348 min Scan# 895
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 45 Resp: 98476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 12.6 | 0.0 | 35.6 |
| 79 | 10.2 | 0.0 | 30.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

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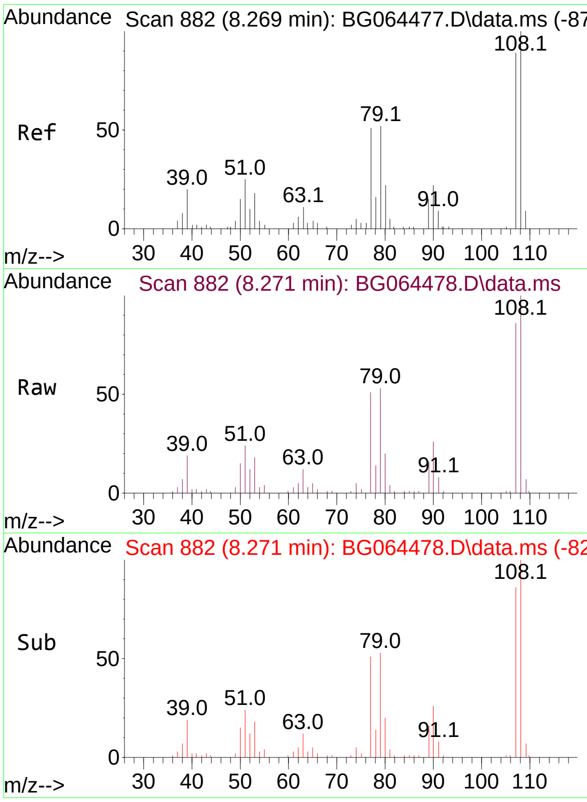
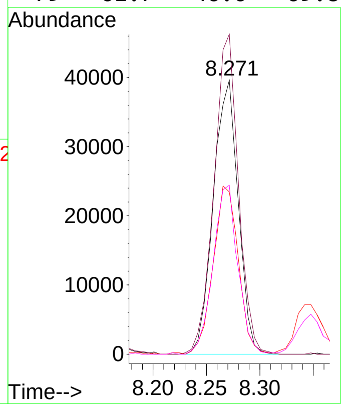
Supervised By :Jagrut Upadhyay 10/03/2025

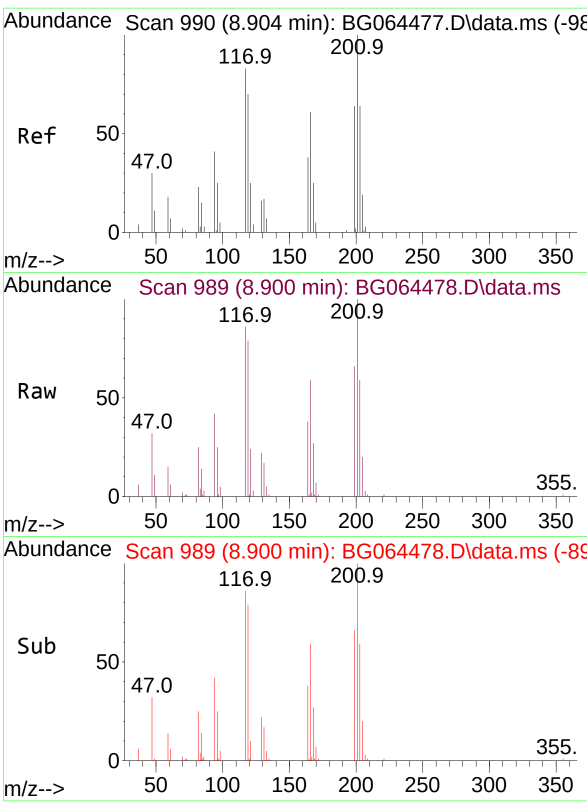



#17
2-Methylphenol
Concen: 48.496 ng
RT: 8.271 min Scan# 88
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:107 Resp: 6420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 116.9 | 90.3 | 135.5 |
| 77 | 59.2 | 46.0 | 69.0 |
| 79 | 61.7 | 46.6 | 69.8 |

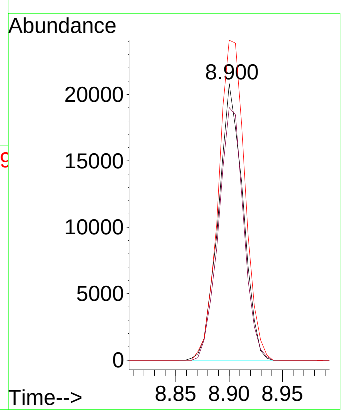



#18
Hexachloroethane
Concen: 48.862 ng
RT: 8.900 min Scan# 989
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:117 Resp: 33535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.5 | 67.4 | 101.0 |
| 201 | 115.9 | 95.9 | 143.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
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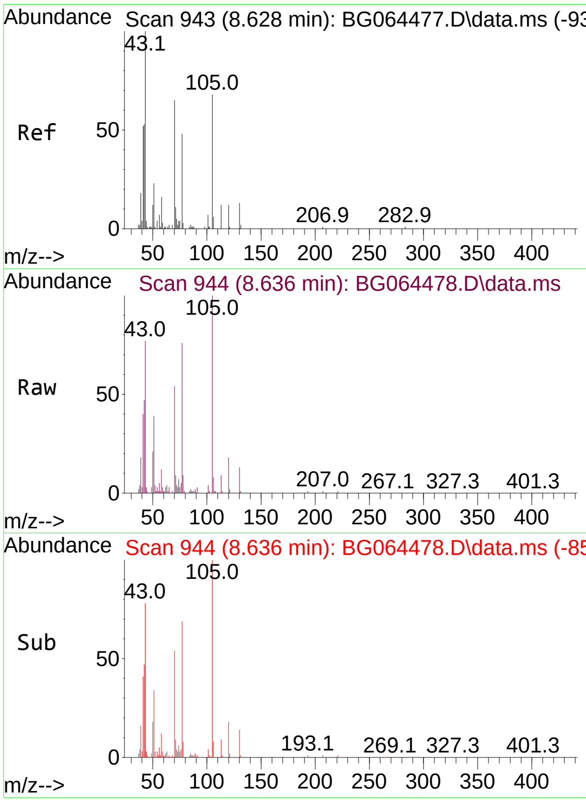
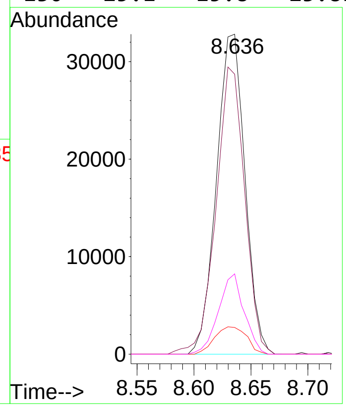
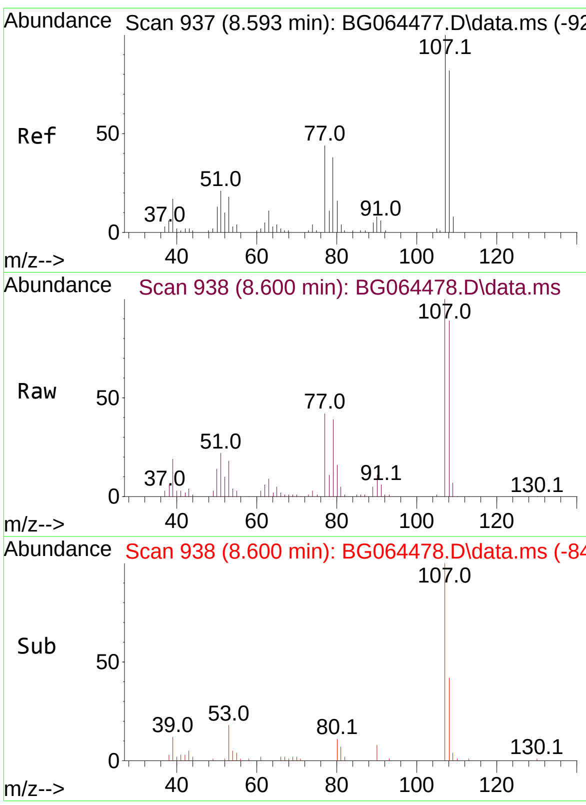



#19
n-Nitroso-di-n-propylamine
Concen: 49.375 ng
RT: 8.636 min Scan# 94
Delta R.T. 0.022 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 70 Resp: 5723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 87.5 | 64.9 | 97.3 |
| 101 | 8.3 | 8.7 | 13.1# |
| 130 | 25.1 | 15.8 | 23.8# |

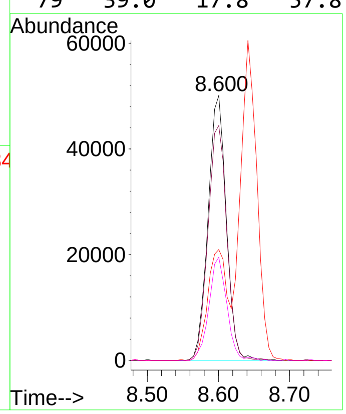



#20
3+4-Methylphenols
Concen: 48.180 ng
RT: 8.600 min Scan# 938
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:107 Resp: 89015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.7 | 62.1 | 102.1 |
| 77 | 41.8 | 23.5 | 63.5 |
| 79 | 39.0 | 17.8 | 57.8 |



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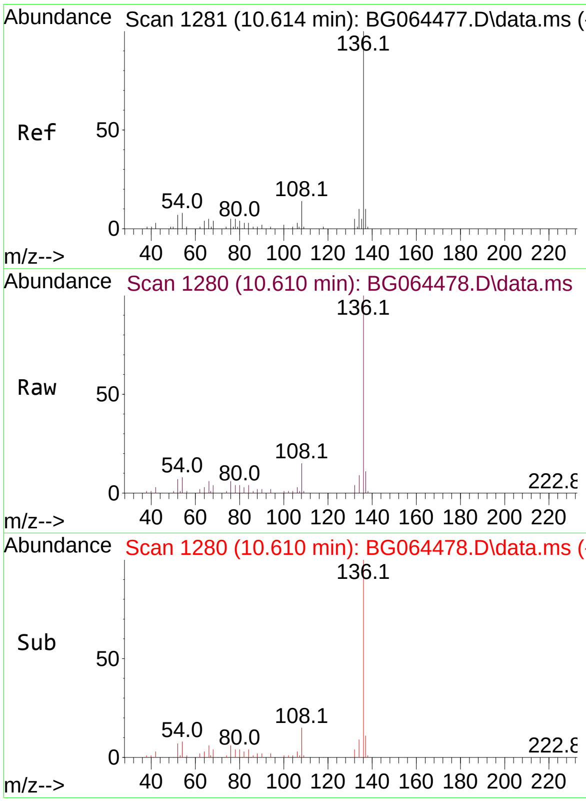
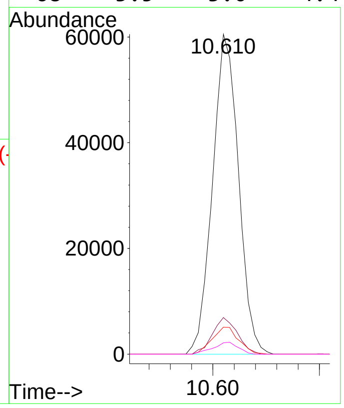



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:136 Resp: 102736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 8.3 | 12.5 |
| 54 | 8.4 | 6.2 | 9.4 |
| 68 | 3.5 | 3.0 | 4.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

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Reviewed By :Rahul Chavli 10/03/2025
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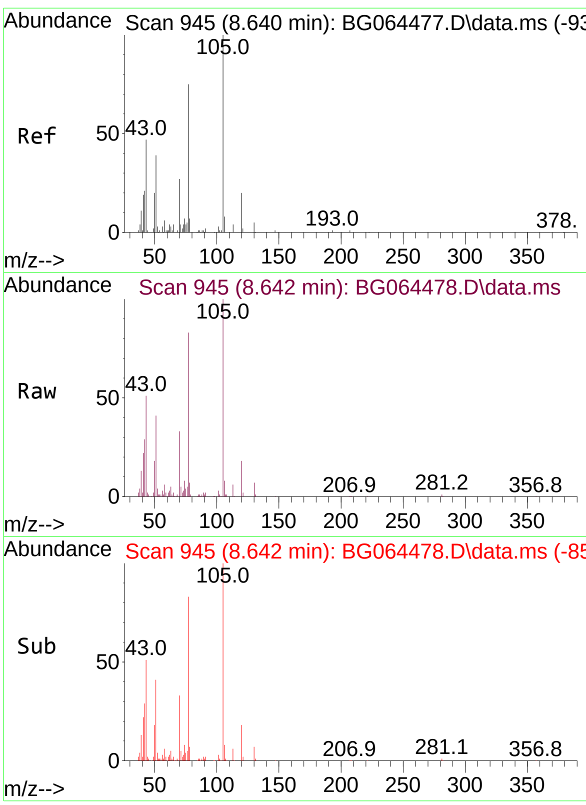
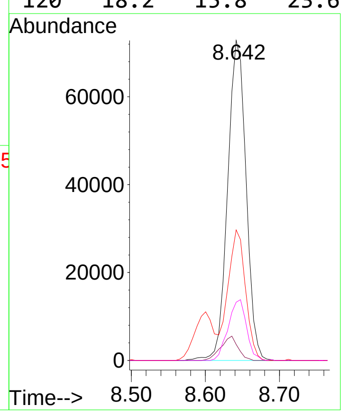



#22
Acetophenone
Concen: 50.649 ng
RT: 8.642 min Scan# 945
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:105 Resp: 125989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 5.0 | 2.8 | 4.2# |
| 51 | 40.8 | 33.0 | 49.4 |
| 120 | 18.2 | 15.8 | 23.6 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

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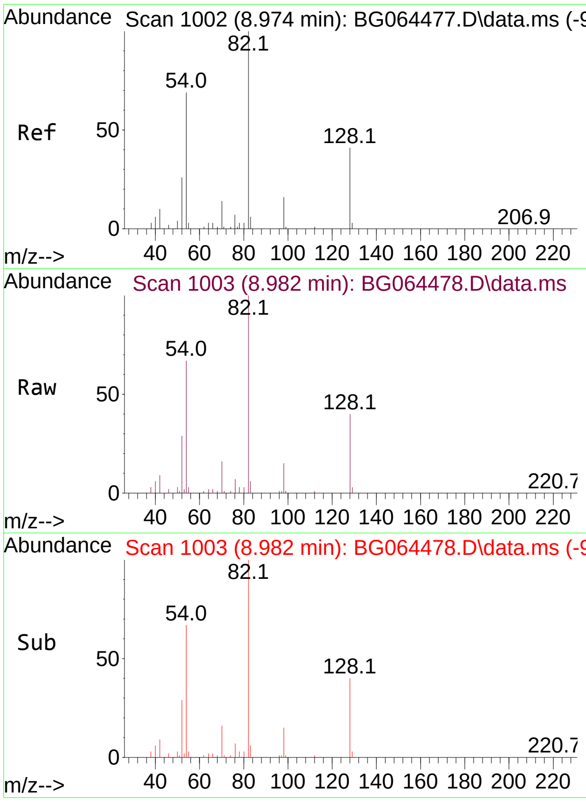
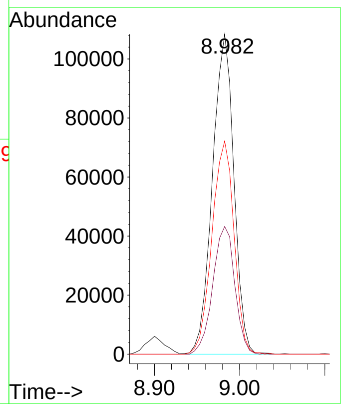
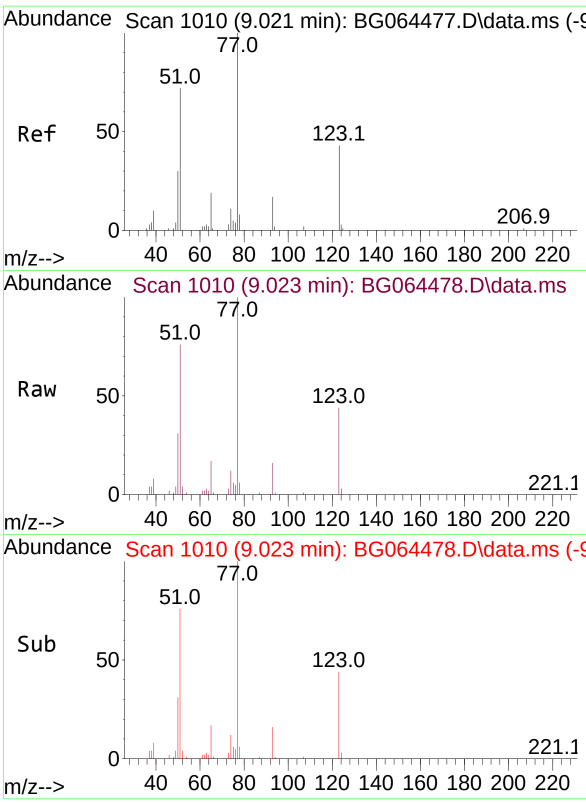
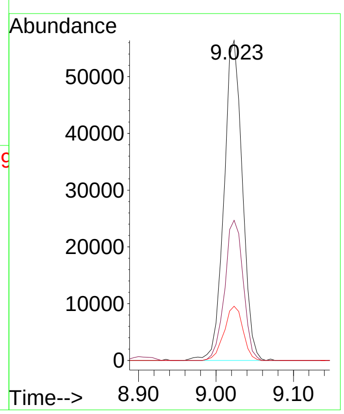



```
#23
Nitrobenzene-d5
Concen:   99.278 ng
RT:   8.982 min  Scan# 1
Delta R.T.  0.016 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion: 82 Resp:  18968
Ion  Ratio  Lower  Upper
 82  100
128   39.9   33.1   49.7
 54   66.6   55.4   83.2
```




```
#24
Nitrobenzene
Concen:   49.104 ng
RT:   9.023 min  Scan# 1010
Delta R.T.  0.010 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion: 77 Resp:   93559
Ion  Ratio  Lower  Upper
 77  100
123   43.8   34.4   51.6
 65   16.9   14.8   22.2
```



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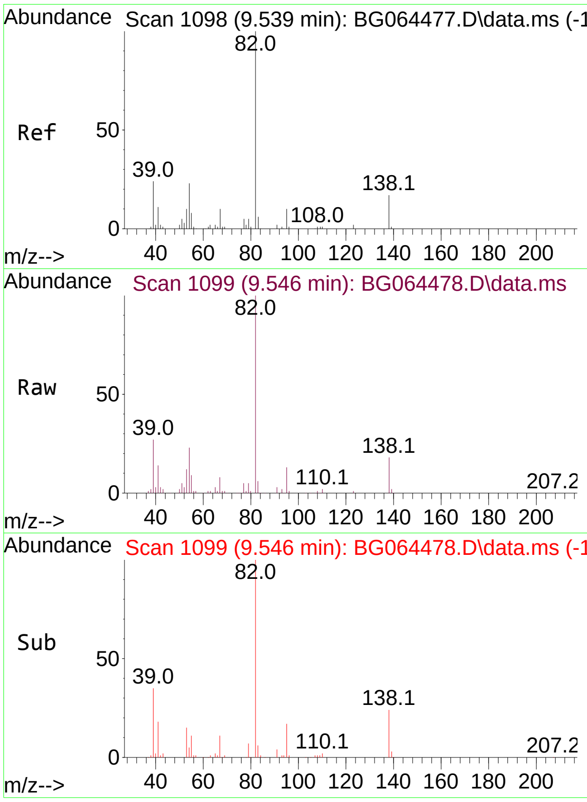


#25
Isophorone
Concen: 48.963 ng
RT: 9.546 min Scan# 10
Delta R.T. 0.016 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 82 Resp: 169476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 12.5 | 7.8 | 11.8# |
| 138 | 17.7 | 13.8 | 20.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
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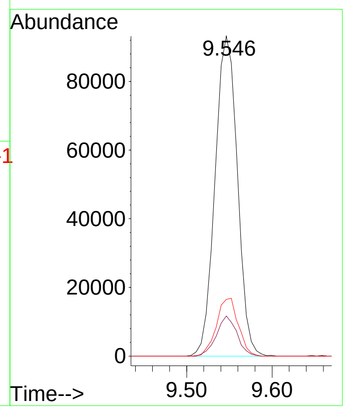
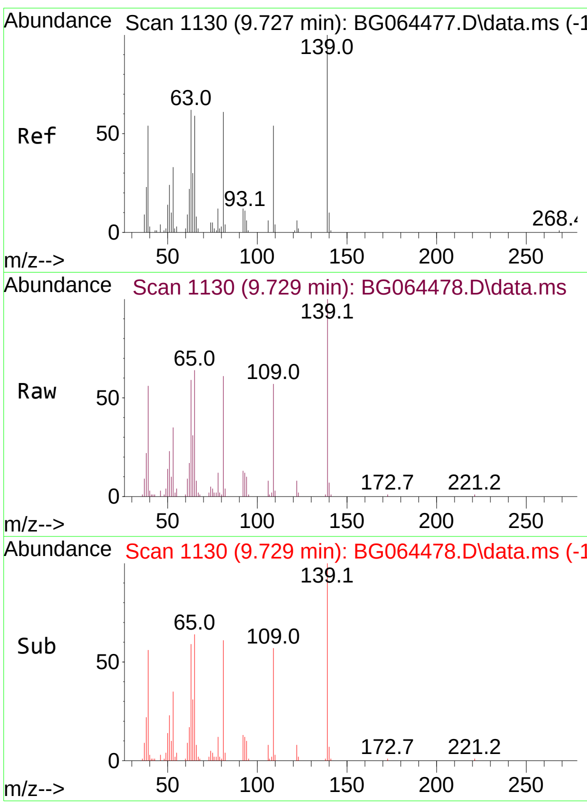
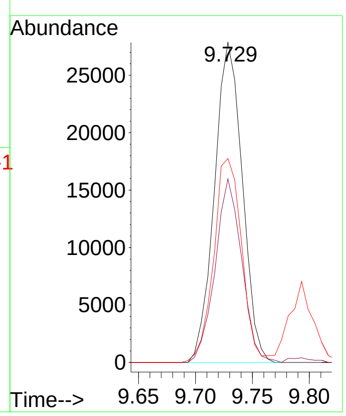


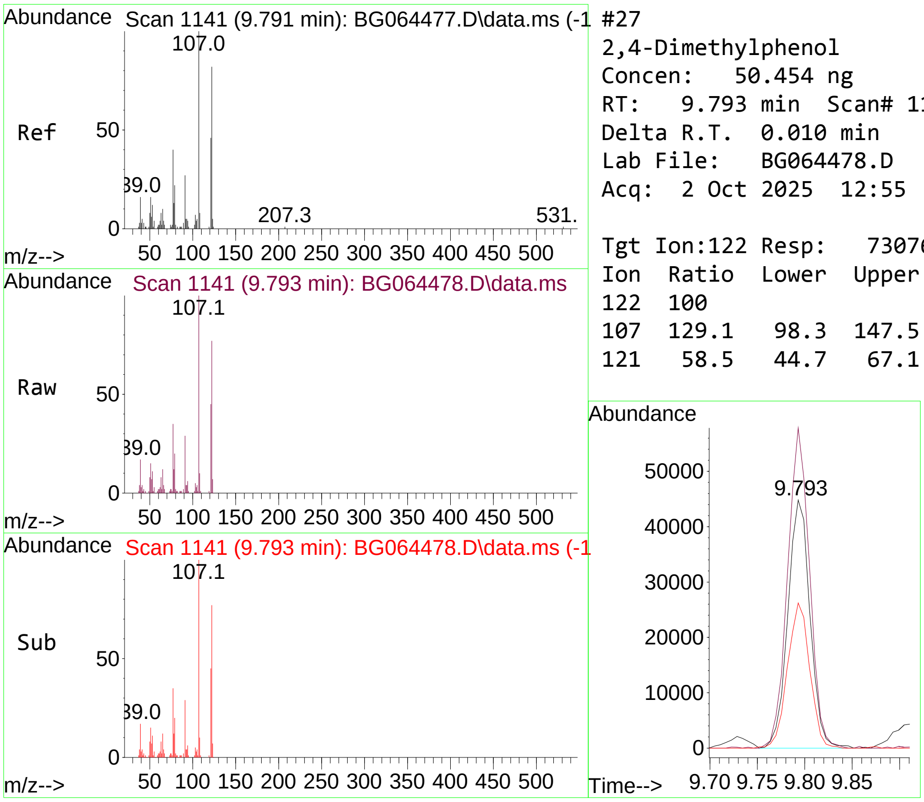




#26
2-Nitrophenol
Concen: 50.130 ng
RT: 9.729 min Scan# 1130
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:139 Resp: 47538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 57.3 | 43.0 | 64.6 |
| 65 | 63.7 | 47.4 | 71.2 |





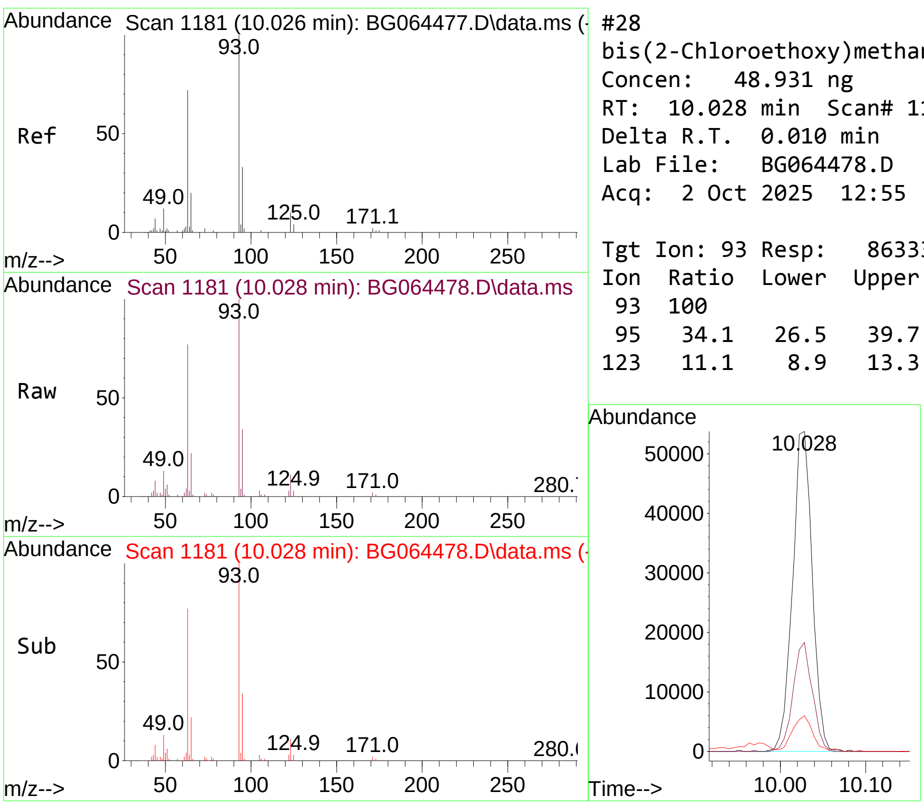

#27
2,4-Dimethylphenol
Concen: 50.454 ng
RT: 9.793 min Scan# 11
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:122 Resp: 7307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 129.1 | 98.3 | 147.5 |
| 121 | 58.5 | 44.7 | 67.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

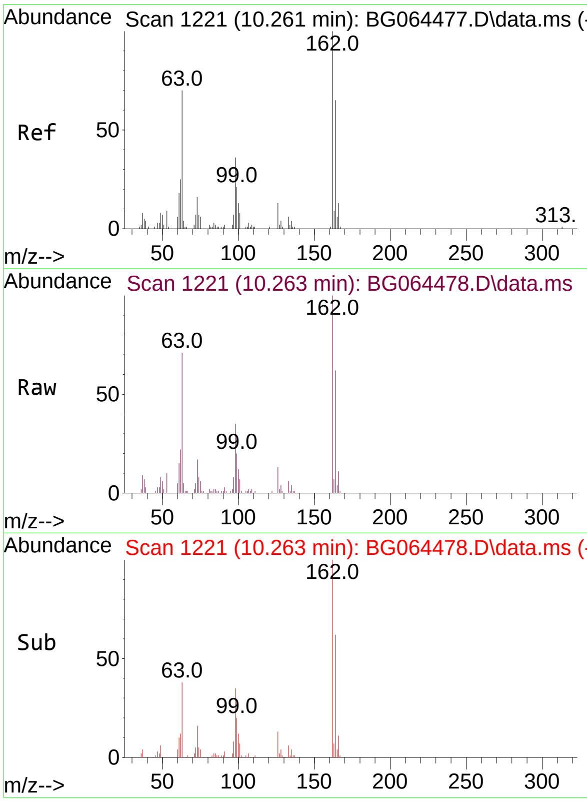



#28
bis(2-Chloroethoxy)methane
Concen: 48.931 ng
RT: 10.028 min Scan# 1181
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 93 Resp: 86333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 34.1 | 26.5 | 39.7 |
| 123 | 11.1 | 8.9 | 13.3 |

ICAL Form




#29
2,4-Dichlorophenol
Concen: 49.435 ng
RT: 10.263 min Scan# 12
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

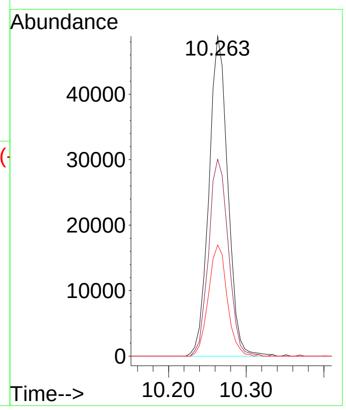
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

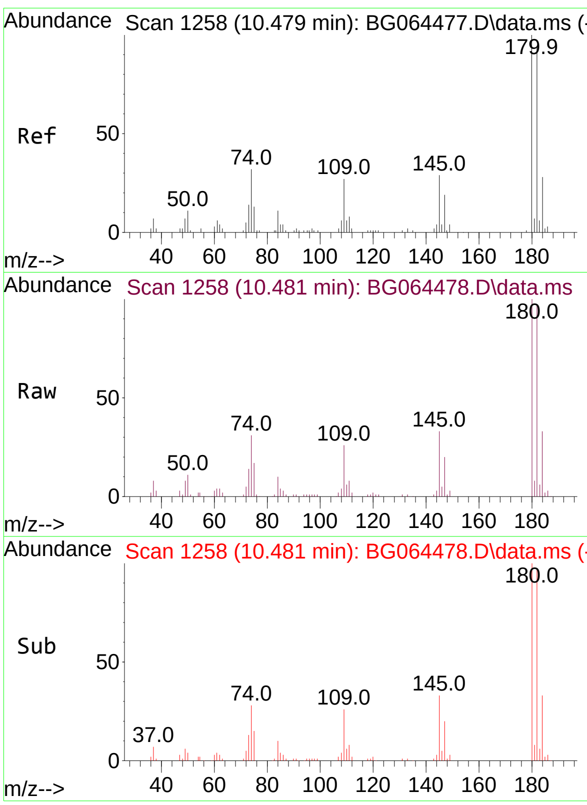
Tgt Ion:162 Resp: 8279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 61.5 | 45.4 | 85.4 |
| 98 | 34.7 | 16.4 | 56.4 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

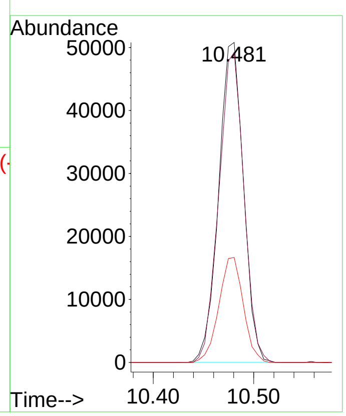


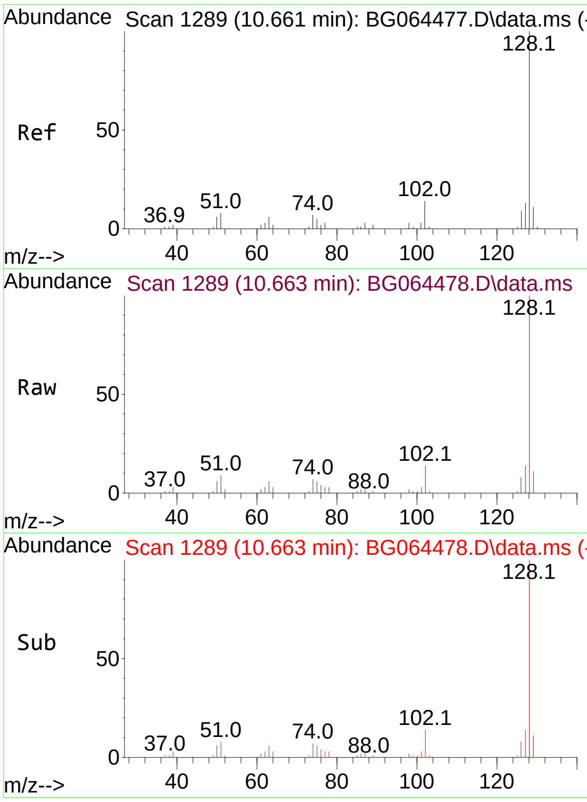

#30
1,2,4-Trichlorobenzene
Concen: 47.734 ng
RT: 10.481 min Scan# 1258
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:180 Resp: 87173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.9 | 75.4 | 113.2 |
| 145 | 32.8 | 23.2 | 34.8 |



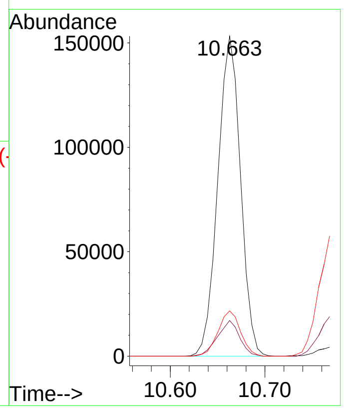
ICAL Form




#31
Naphthalene
Concen: 48.286 ng
RT: 10.663 min Scan# 12
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:128 Resp: 25545

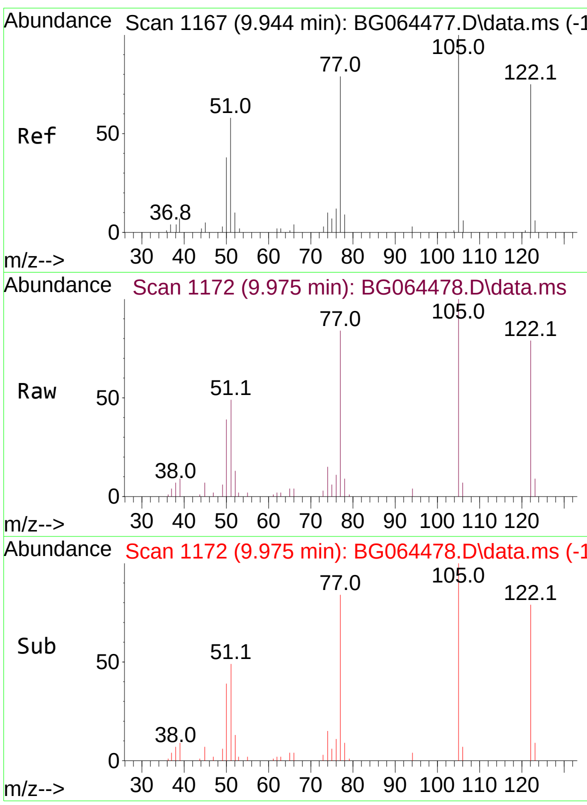
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 8.7 | 13.1 |
| 127 | 14.1 | 10.2 | 15.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

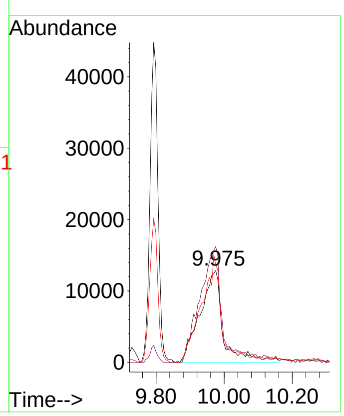
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



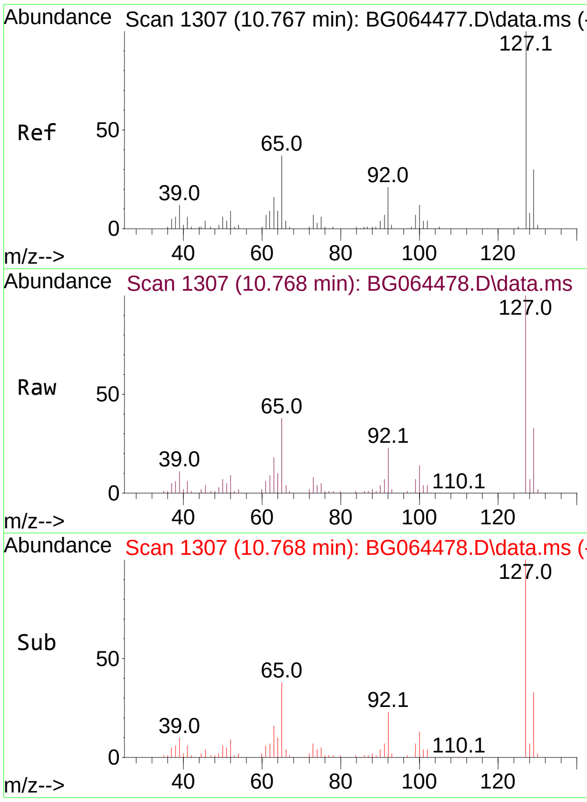

#32
Benzoic acid
Concen: 54.652 ng m
RT: 9.975 min Scan# 1172
Delta R.T. 0.087 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:122 Resp: 60774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 125.9 | 113.9 | 153.9 |
| 77 | 105.8 | 86.1 | 126.1 |



ICAL Form




#33
4-Chloroaniline
Concen: 49.113 ng
RT: 10.768 min Scan# 13
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:127 Resp: 99704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.8 | 24.2 | 36.4 |
| 65 | 37.8 | 29.6 | 44.4 |
| 92 | 23.2 | 16.7 | 25.1 |

**Manual Integrations APPROVED**

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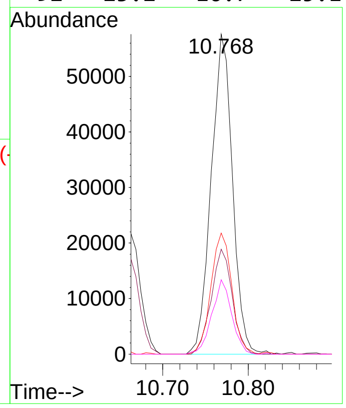
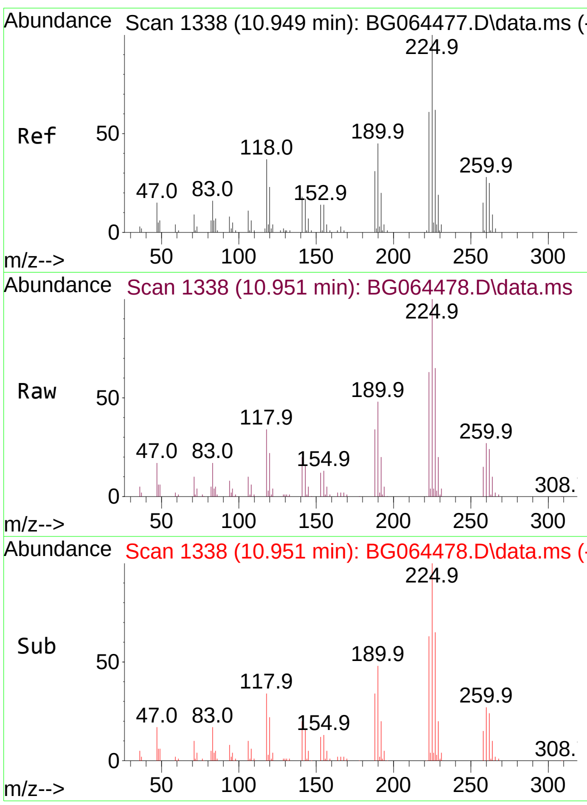
Supervised By :Jagrut Upadhyay 10/03/2025

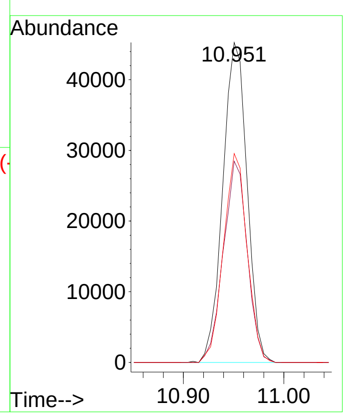



#34
Hexachlorobutadiene
Concen: 48.646 ng
RT: 10.951 min Scan# 1338
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:225 Resp: 76081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 49.0 | 73.6 |
| 227 | 65.3 | 49.9 | 74.9 |

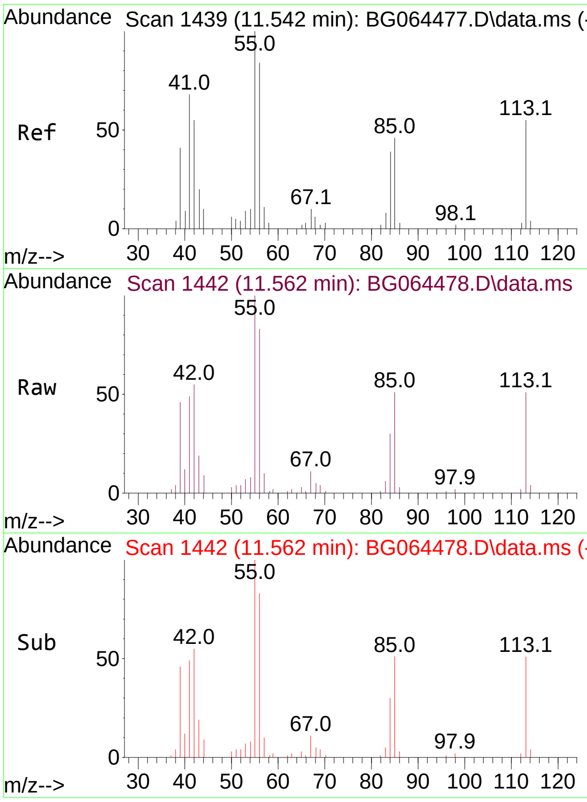


ICAL Form

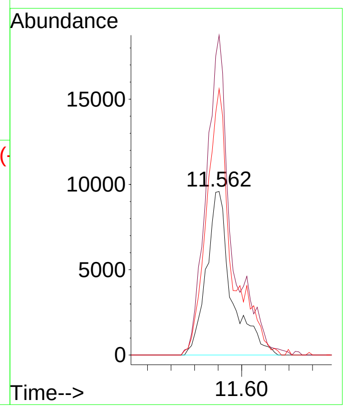
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

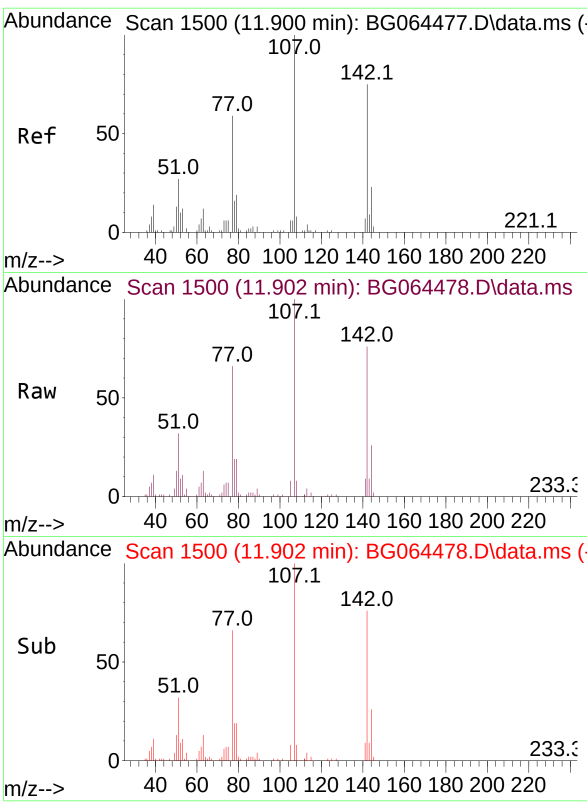
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

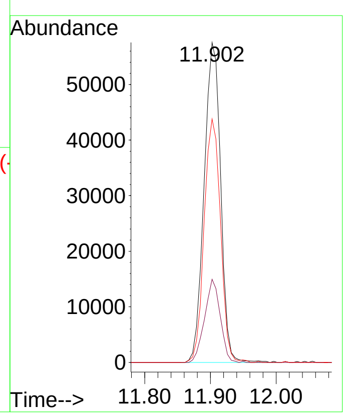



```
#35
Caprolactam
Concen:   49.561 ng
RT:  11.562 min  Scan# 14
Delta R.T.  0.051 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:113 Resp:   2841
Ion  Ratio  Lower  Upper
113  100
 55  195.6  162.0  202.0
 56  162.8  134.6  174.6
```



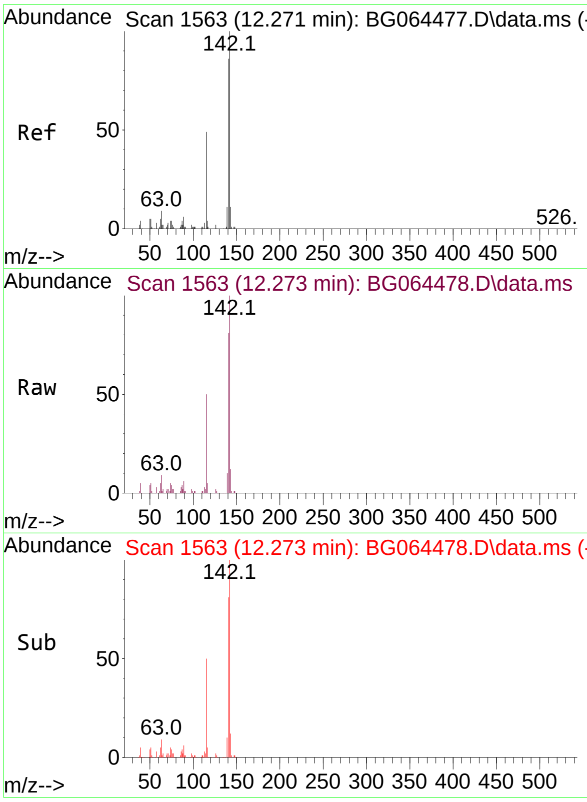

```
#36
4-Chloro-3-methylphenol
Concen:   49.208 ng
RT:  11.902 min  Scan# 1500
Delta R.T.  0.010 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:107 Resp:  100226
Ion  Ratio  Lower  Upper
107  100
144   26.0   18.7   28.1
142   76.1   60.2   90.2
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

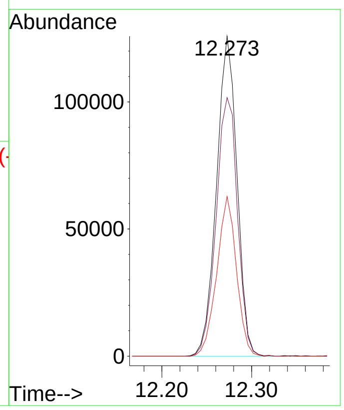
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

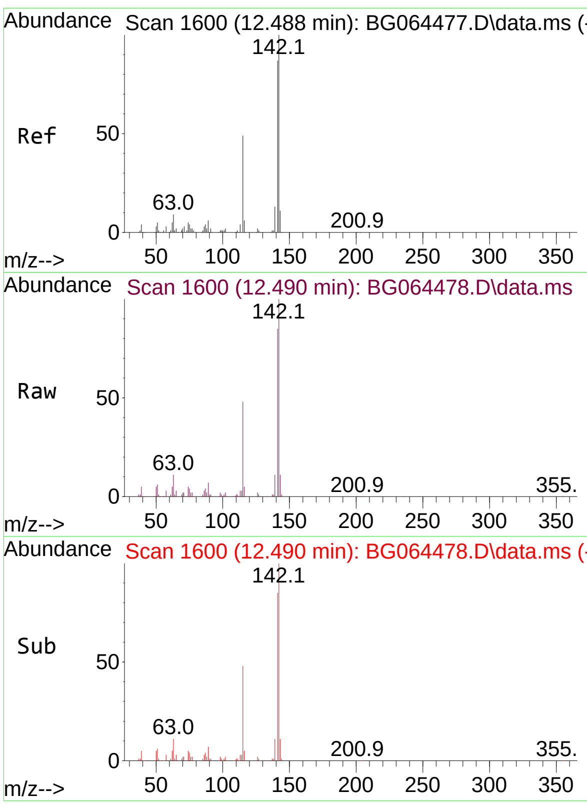



#37
2-Methylnaphthalene
Concen: 49.224 ng
RT: 12.273 min Scan# 15
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:142 Resp: 19989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 80.8 | 68.7 | 103.1 |
| 115 | 49.9 | 39.3 | 58.9 |

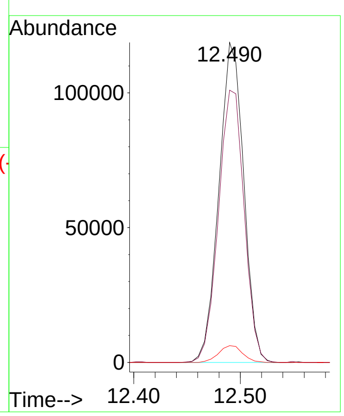


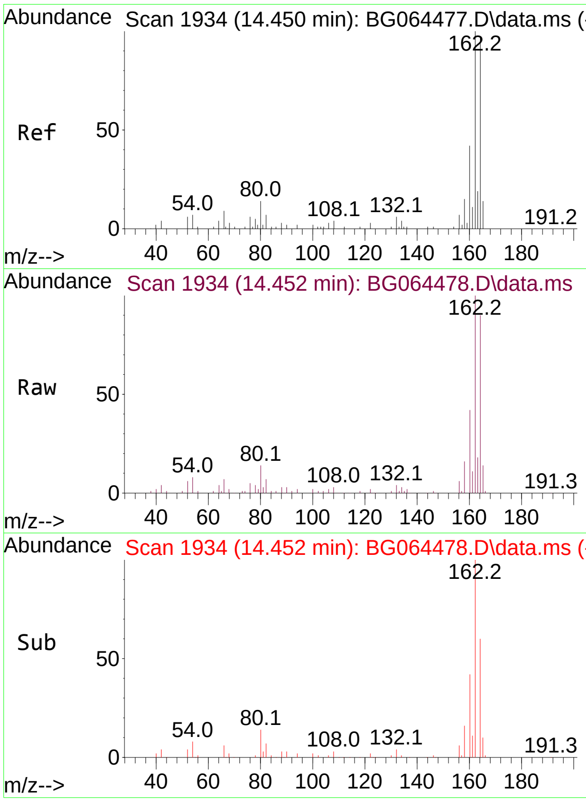

#38
1-Methylnaphthalene
Concen: 47.567 ng
RT: 12.490 min Scan# 1600
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:142 Resp: 192614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.1 | 69.8 | 104.8 |
| 116 | 5.2 | 4.6 | 6.8 |



ICAL Form




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.452 min Scan# 19
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:164 Resp: 7795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 111.6 | 82.2 | 123.2 |
| 160 | 46.9 | 34.3 | 51.5 |

**Manual Integrations APPROVED**

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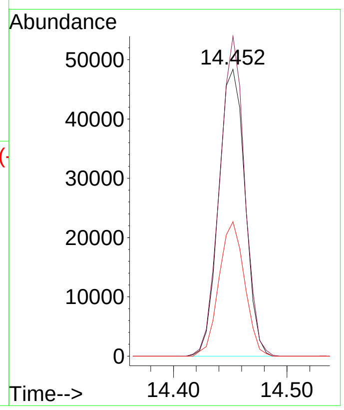
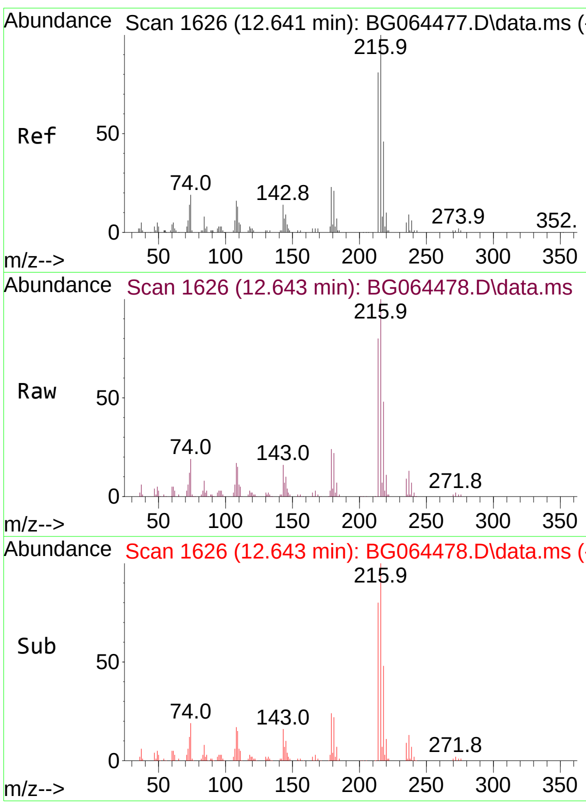
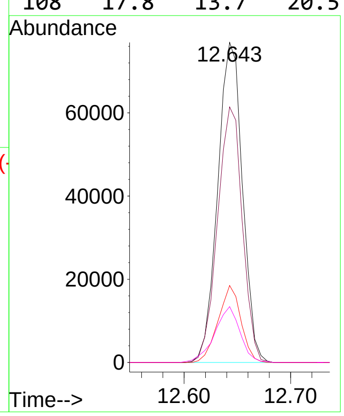


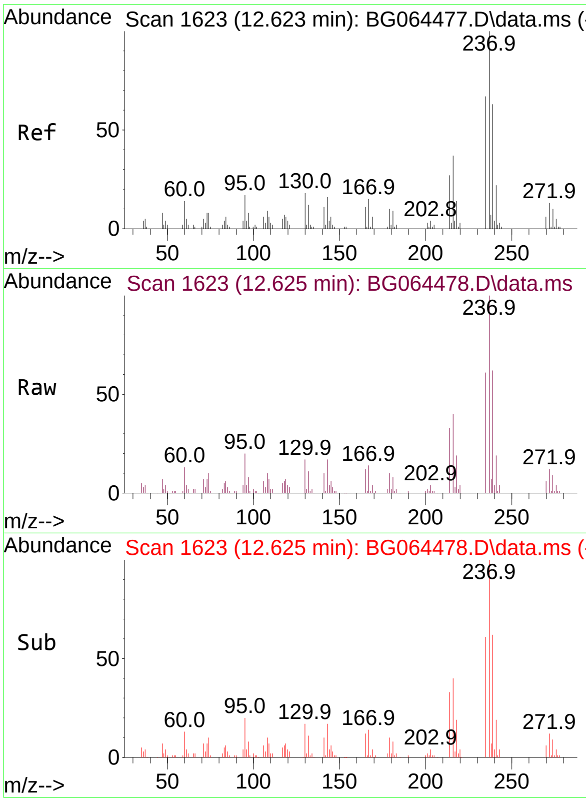




#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.525 ng
RT: 12.643 min Scan# 1626
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:216 Resp: 124648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 80.0 | 62.5 | 93.7 |
| 179 | 22.2 | 17.0 | 25.6 |
| 108 | 17.8 | 13.7 | 20.5 |






#41
Hexachlorocyclopentadiene
Concen: 52.692 ng
RT: 12.625 min Scan# 16
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

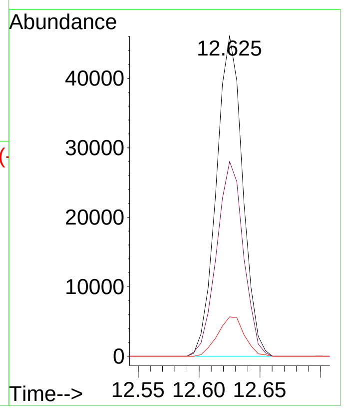
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

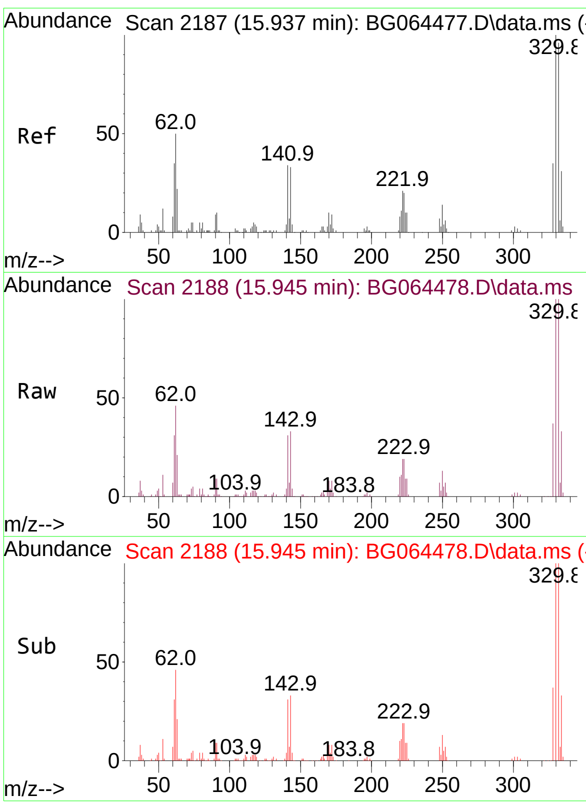
Tgt Ion:237 Resp: 6937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 60.8 | 46.9 | 86.9 |
| 272 | 12.3 | 0.0 | 32.6 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

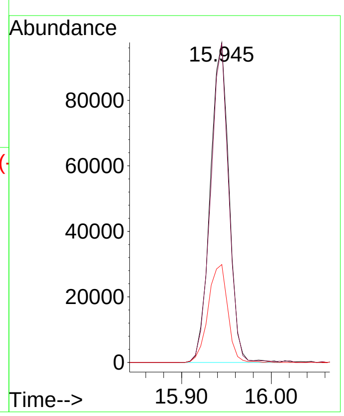


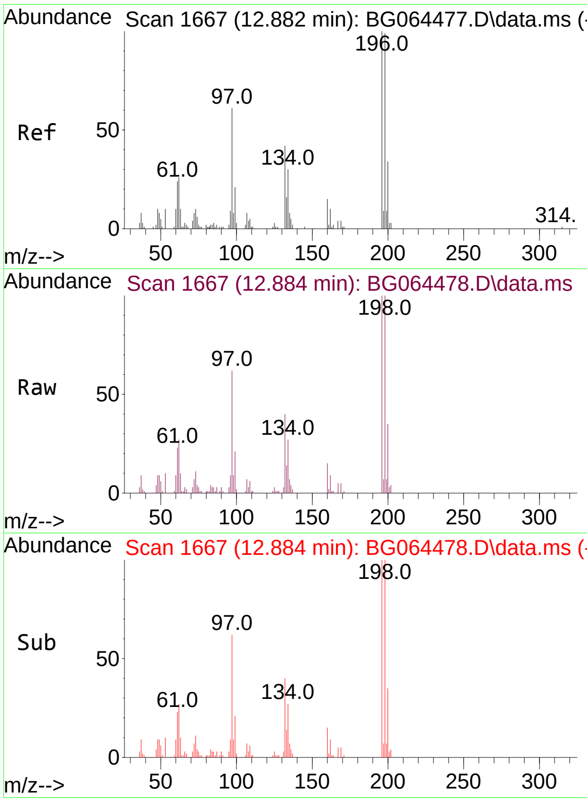




#42
2,4,6-Tribromophenol
Concen: 100.345 ng
RT: 15.945 min Scan# 2188
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:330 Resp: 141783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 77.4 | 116.0 |
| 141 | 31.9 | 25.8 | 38.6 |





#43
2,4,6-Trichlorophenol
Concen: 50.434 ng
RT: 12.884 min Scan# 16
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

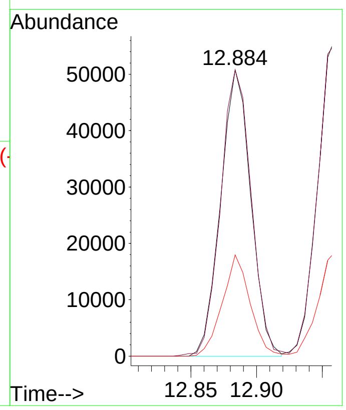
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

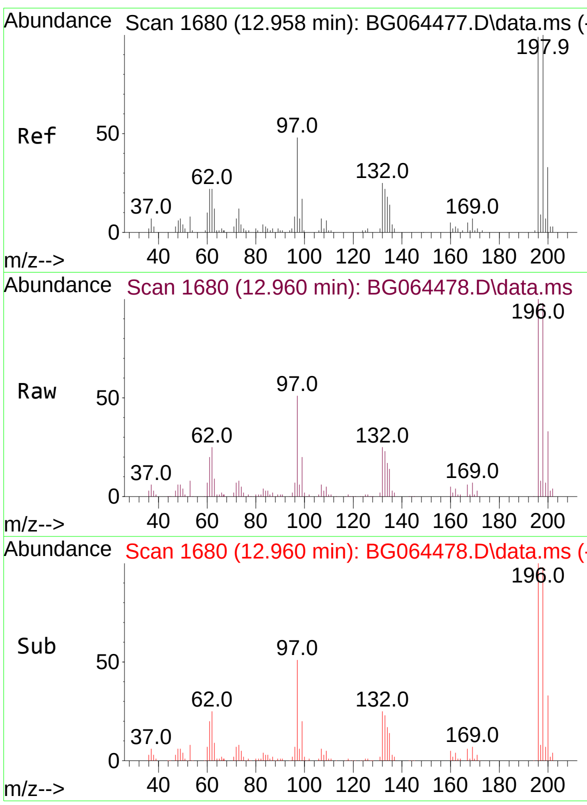
Tgt Ion:196 Resp: 81144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.0 | 79.3 | 118.9 |
| 200 | 35.4 | 27.4 | 41.2 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

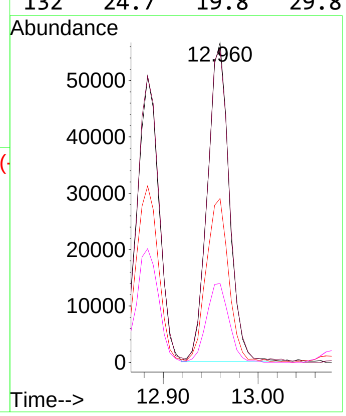


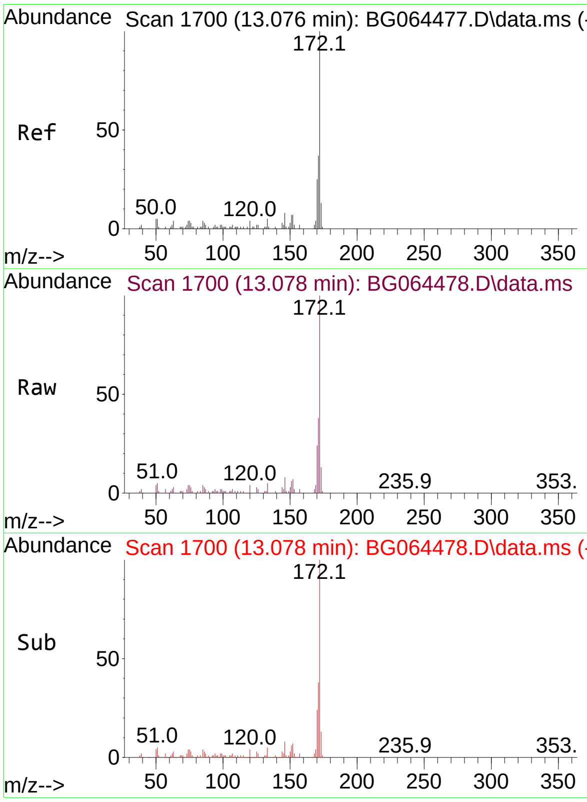


#44
2,4,5-Trichlorophenol
Concen: 50.396 ng
RT: 12.960 min Scan# 1680
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:196 Resp: 90524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 98.0 | 80.3 | 120.5 |
| 97 | 51.2 | 39.4 | 59.0 |
| 132 | 24.7 | 19.8 | 29.8 |






#45
2-Fluorobiphenyl
Concen: 97.676 ng
RT: 13.078 min Scan# 1
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

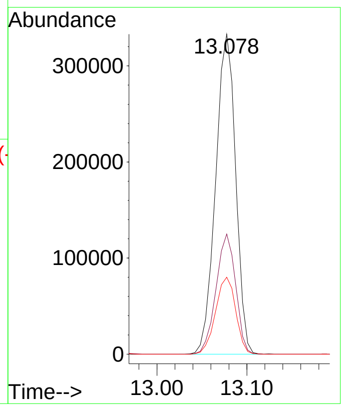
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

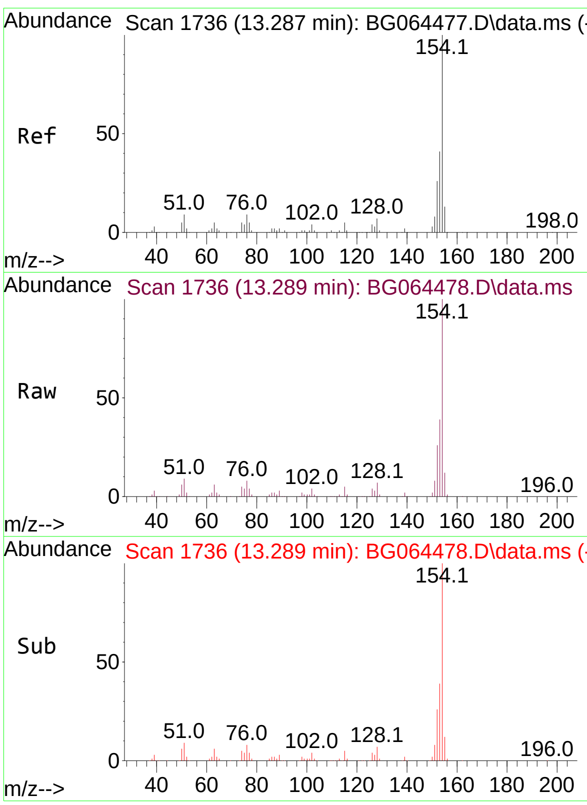
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:172 Resp: 51654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.5 | 29.6 | 44.4 |
| 170 | 24.0 | 20.2 | 30.2 |

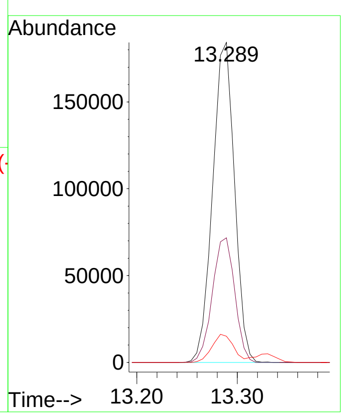


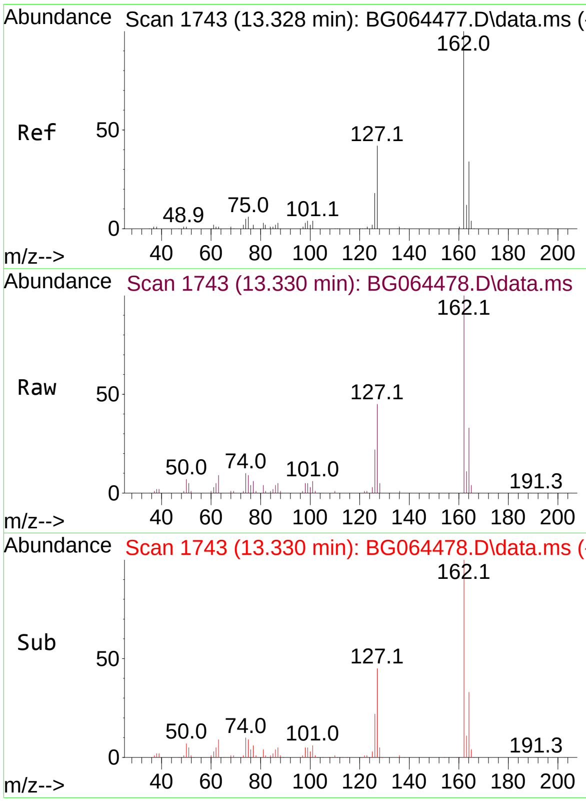




#46
1,1'-Biphenyl
Concen: 49.860 ng
RT: 13.289 min Scan# 1736
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:154 Resp: 279537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 38.9 | 20.7 | 60.7 |
| 76 | 8.2 | 0.0 | 29.3 |





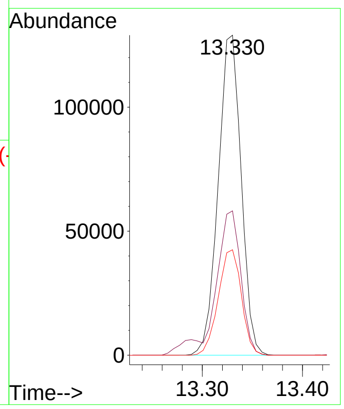

#47
2-Chloronaphthalene
Concen: 49.166 ng
RT: 13.330 min Scan# 1
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

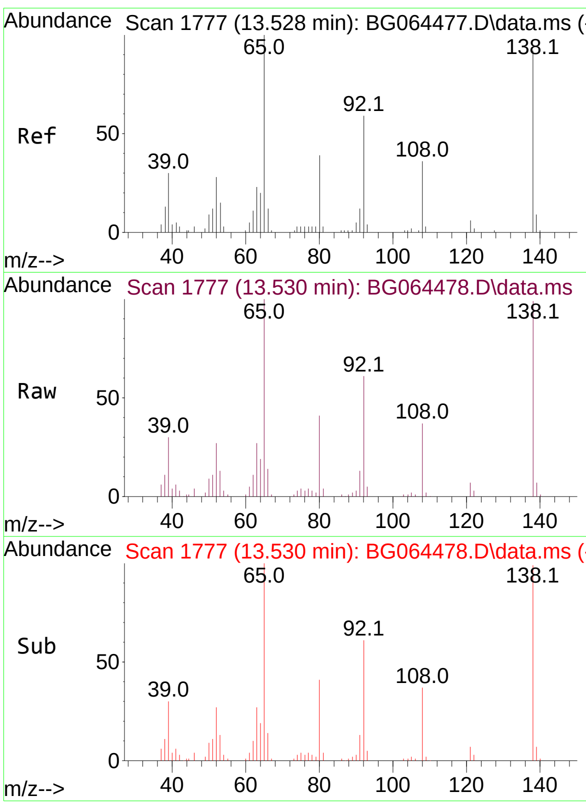
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:162 Resp: 20580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 45.1 | 35.8 | 53.8 |
| 164 | 32.9 | 27.2 | 40.8 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

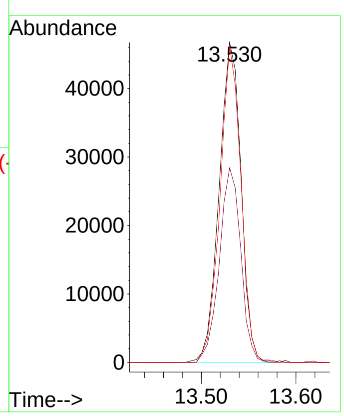


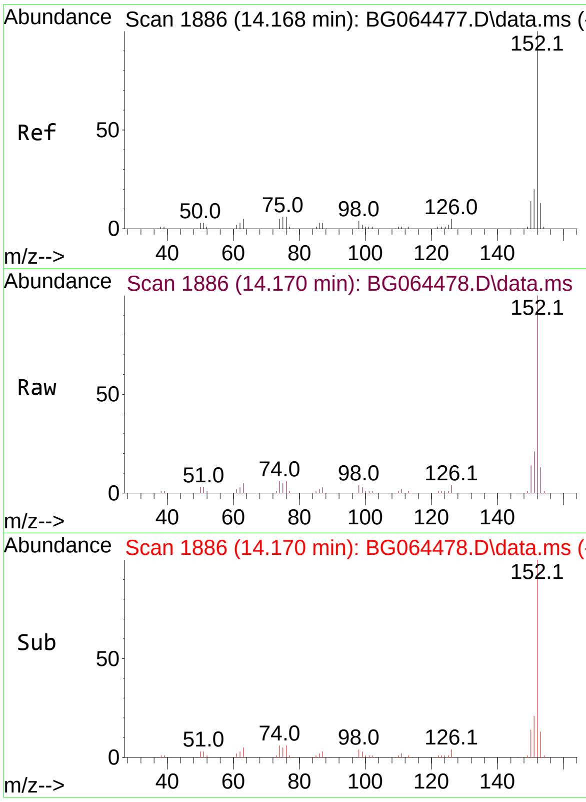

#48
2-Nitroaniline
Concen: 52.594 ng
RT: 13.530 min Scan# 1777
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 65 Resp: 75138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 60.8 | 47.0 | 70.6 |
| 138 | 98.9 | 73.5 | 110.3 |



ICAL Form




#49
Acenaphthylene
Concen:   49.365 ng
RT:  14.170 min  Scan# 18
Delta R.T.  -0.002 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

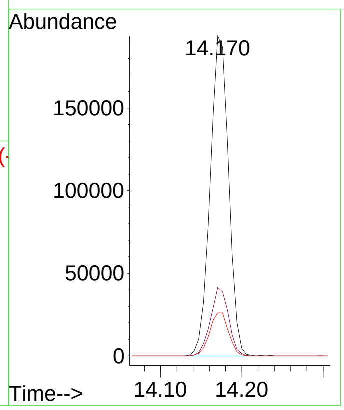
Tgt Ion:152 Resp:  30674

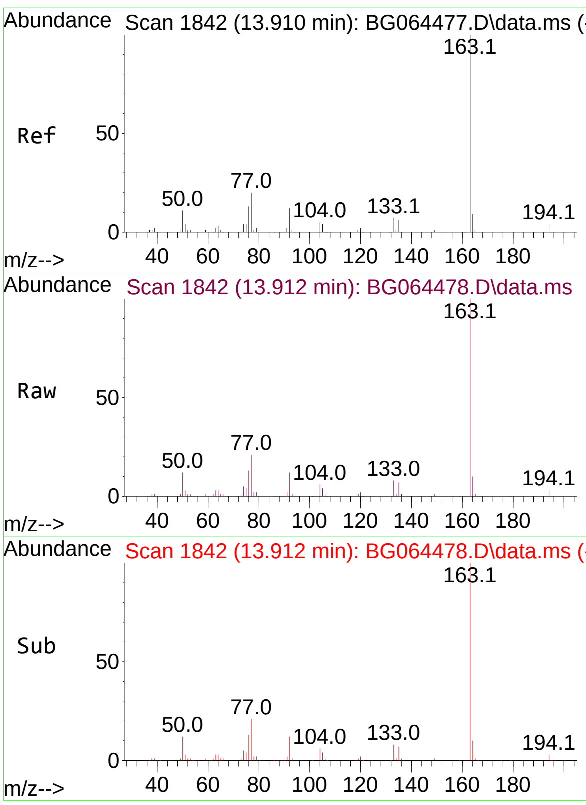
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 15.8 | 23.6 |
| 153 | 13.5 | 10.6 | 15.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli    10/03/2025
Supervised By :Jagrut Upadhyay    10/03/2025

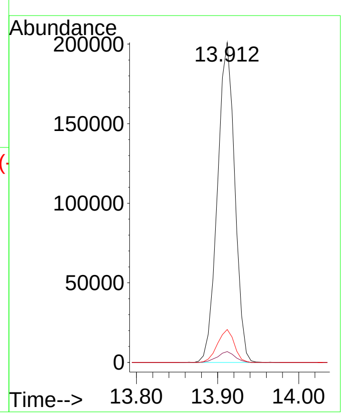


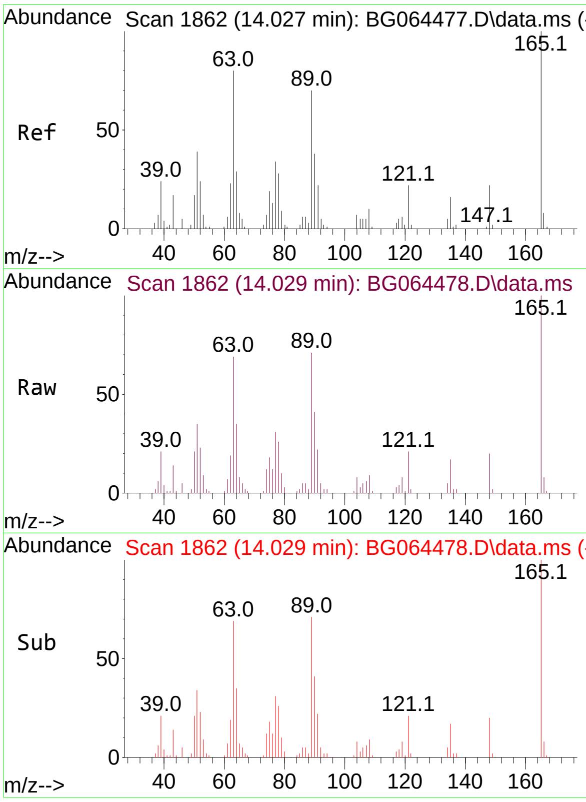




#50
Dimethylphthalate
Concen:   48.884 ng
RT:  13.912 min  Scan# 1842
Delta R.T.  0.010 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:163 Resp:  298441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.4 | 2.9 | 4.3 |
| 164 | 10.3 | 7.4 | 11.0 |






#51
2,6-Dinitrotoluene
Concen: 51.087 ng
RT: 14.029 min Scan# 18
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:165 Resp: 6497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 69.2 | 63.9 | 95.9 |
| 89 | 71.4 | 56.1 | 84.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
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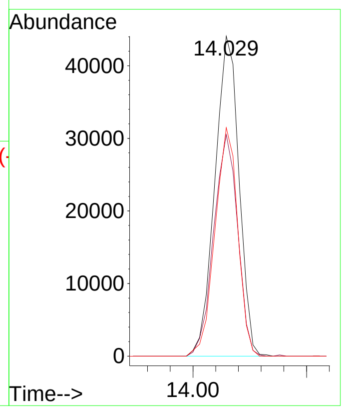
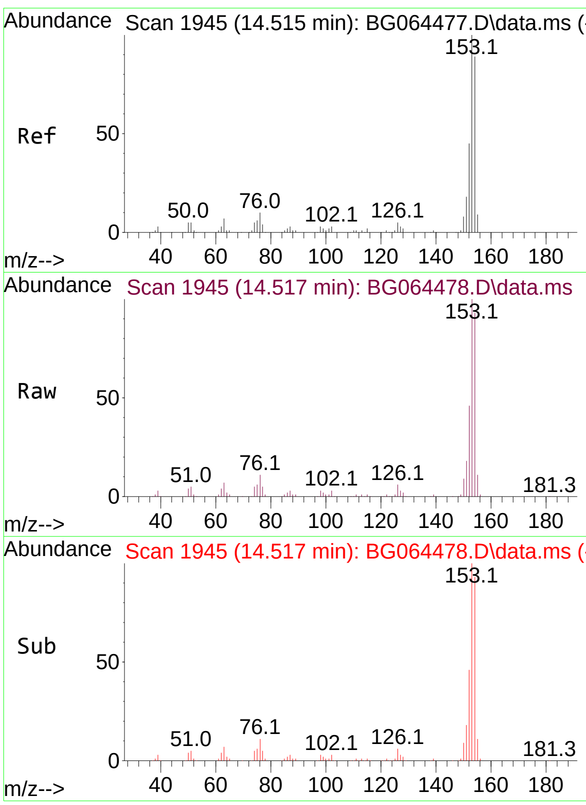
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

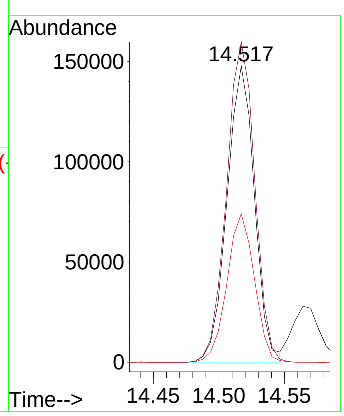



#52
Acenaphthene
Concen: 49.943 ng
RT: 14.517 min Scan# 1945
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:154 Resp: 215606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 108.1 | 90.2 | 135.4 |
| 152 | 50.1 | 40.2 | 60.4 |



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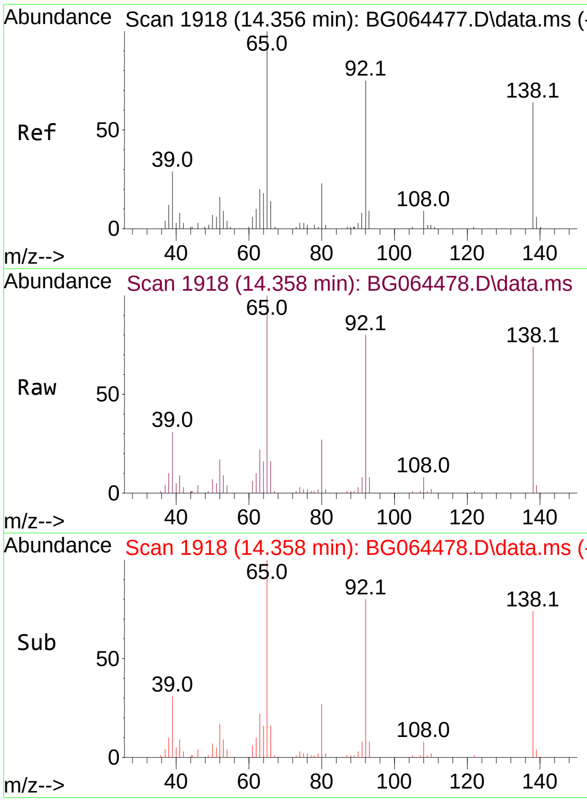


#53
3-Nitroaniline
Concen: 52.305 ng
RT: 14.358 min Scan# 19
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:138 Resp: 6134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 10.9 | 10.6 | 15.8 |
| 92 | 107.4 | 93.2 | 139.8 |

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Reviewed By :Rahul Chavli 10/03/2025
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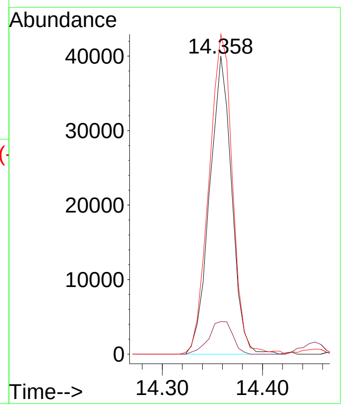
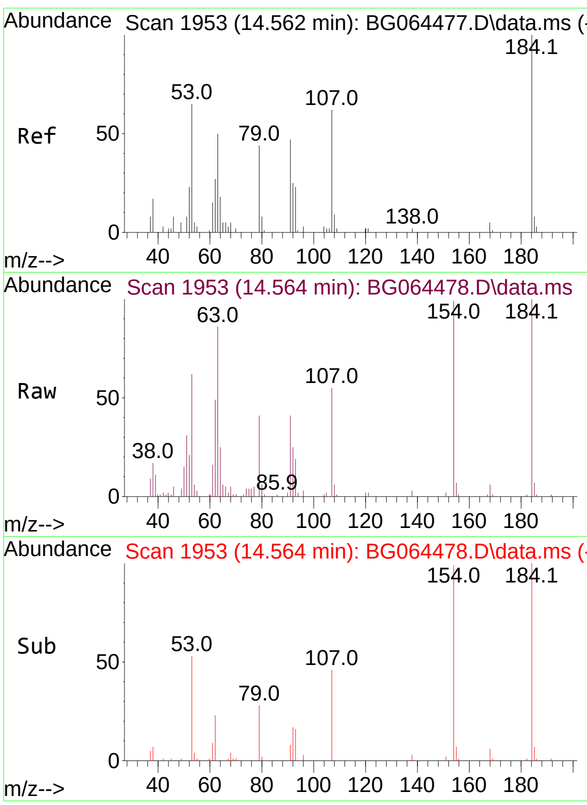
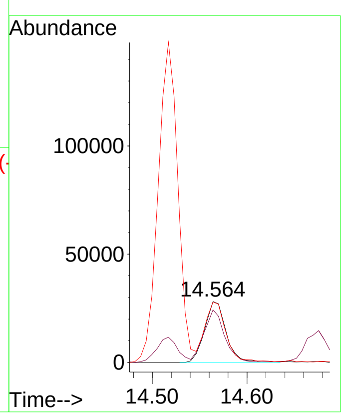



#54
2,4-Dinitrophenol
Concen: 48.222 ng
RT: 14.564 min Scan# 1953
Delta R.T. -0.002 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:184 Resp: 44469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 86.4 | 69.0 | 103.4 |
| 154 | 99.3 | 95.6 | 143.4 |



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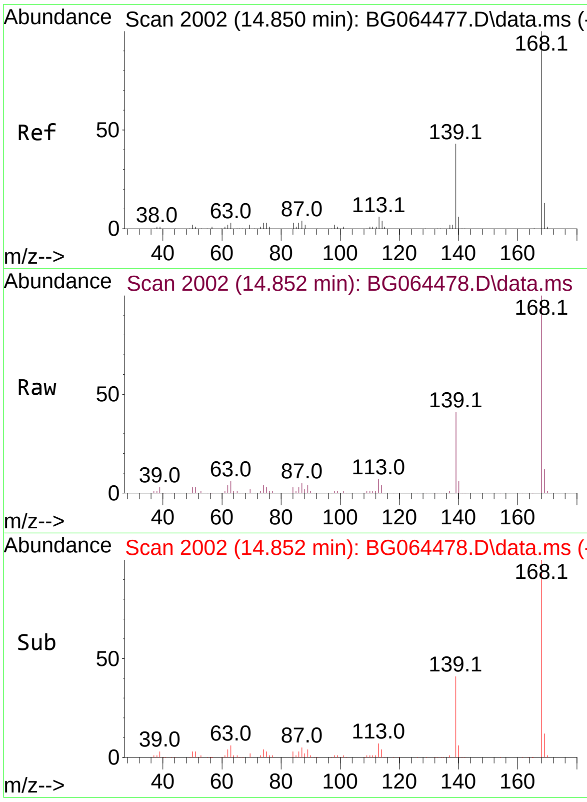


#55
Dibenzofuran
Concen: 49.793 ng
RT: 14.852 min Scan# 20
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:168 Resp: 35492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.5 | 34.0 | 51.0 |
| 169 | 12.3 | 10.2 | 15.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

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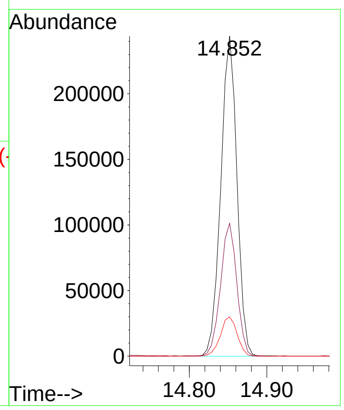
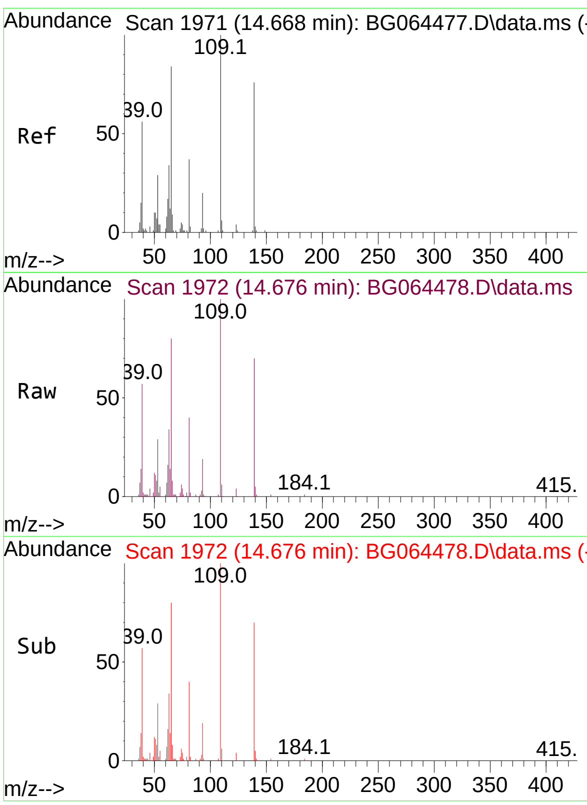
Supervised By :Jagrut Upadhyay 10/03/2025

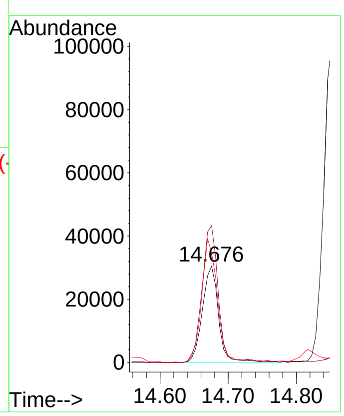


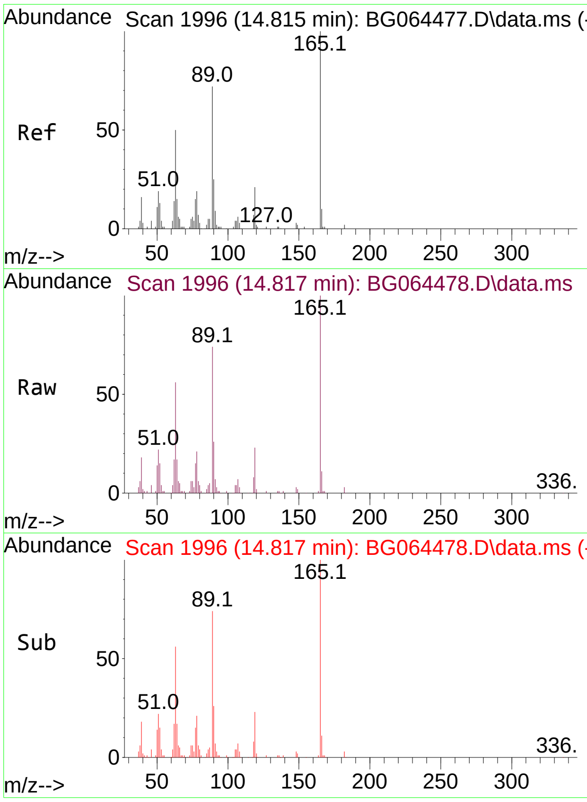

#56
4-Nitrophenol
Concen: 54.092 ng
RT: 14.676 min Scan# 1972
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:139 Resp: 49950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 142.0 | 111.8 | 151.8 |
| 65 | 113.8 | 91.1 | 131.1 |



ICAL Form




#57
2,4-Dinitrotoluene
Concen: 51.401 ng
RT: 14.817 min Scan# 19
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:165 Resp: 9993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 56.2 | 40.4 | 60.6 |
| 89 | 74.4 | 57.3 | 85.9 |
| 182 | 2.8 | 1.9 | 2.9 |

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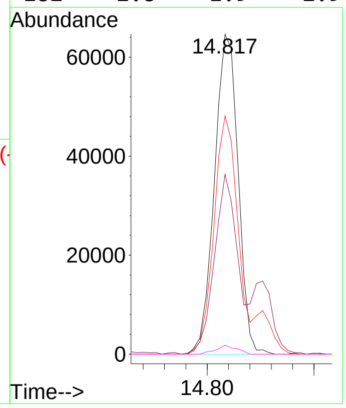
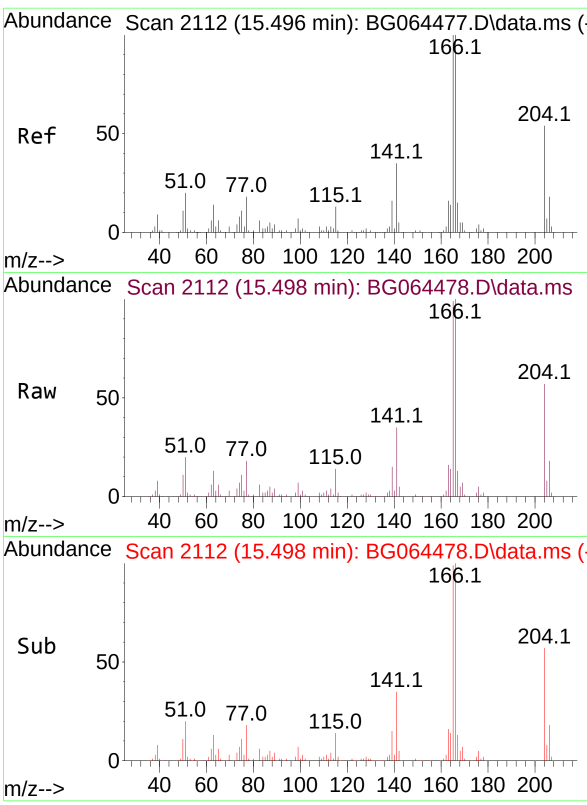
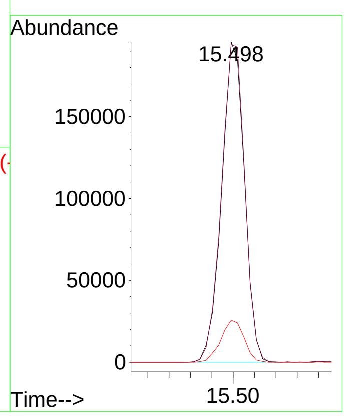


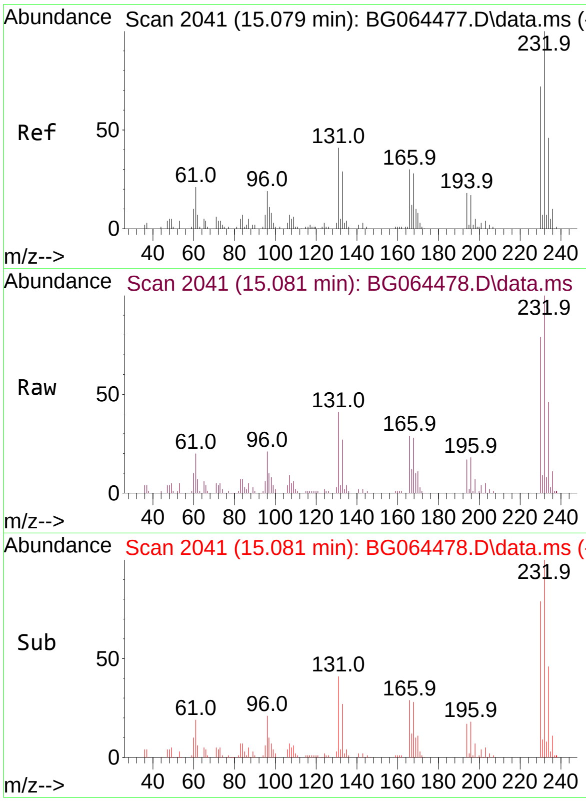

#58
Fluorene
Concen: 48.945 ng
RT: 15.498 min Scan# 2112
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:166 Resp: 290041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.4 | 79.8 | 119.6 |
| 167 | 13.2 | 11.7 | 17.5 |



ICAL Form




#59
2,3,4,6-Tetrachlorophenol
Concen: 50.511 ng
RT: 15.081 min Scan# 20
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:232 Resp: 92595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 42.5 | 35.0 | 52.4 |
| 130 | 2.7 | 2.0 | 3.0 |
| 166 | 29.0 | 23.8 | 35.6 |

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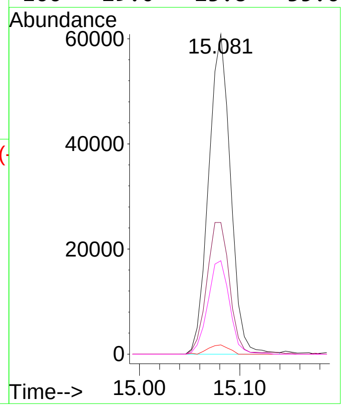
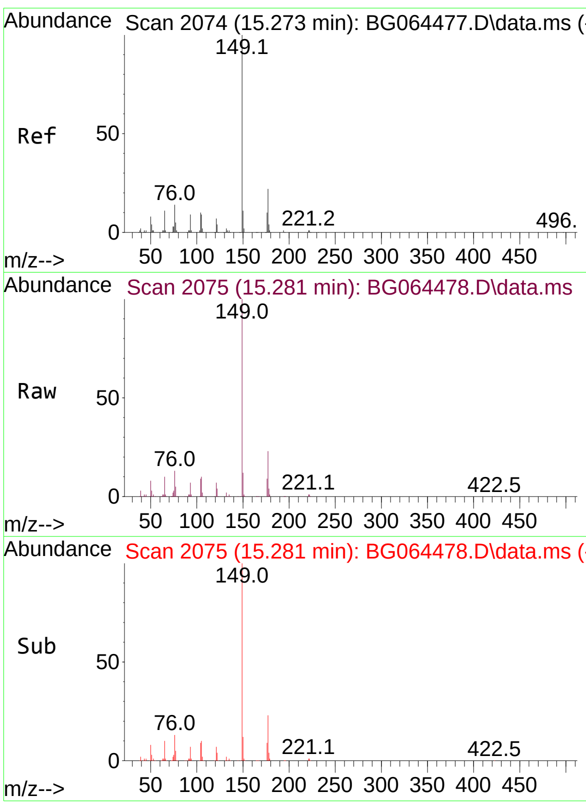
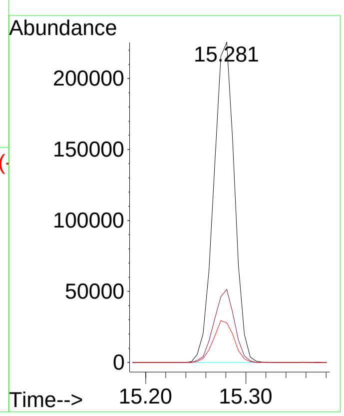



#60
Diethylphthalate
Concen: 49.833 ng
RT: 15.281 min Scan# 2075
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:149 Resp: 326367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.8 | 17.4 | 26.0 |
| 150 | 12.4 | 9.1 | 13.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
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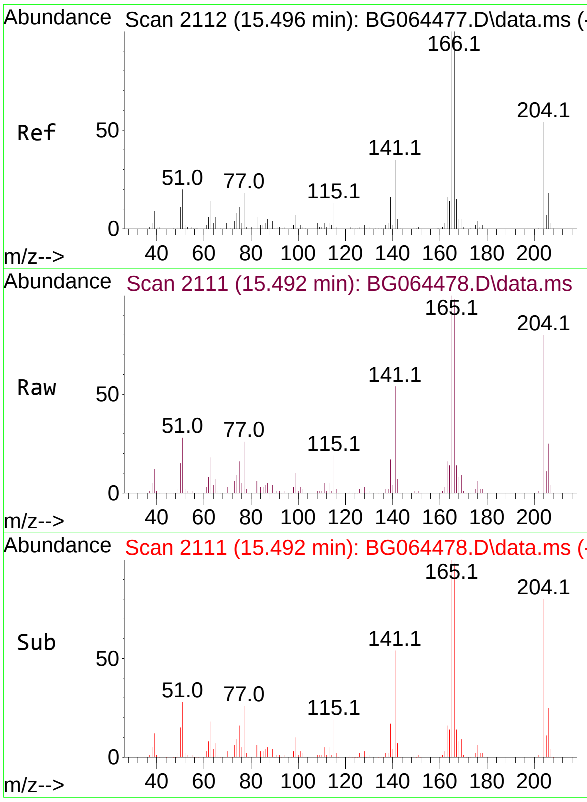
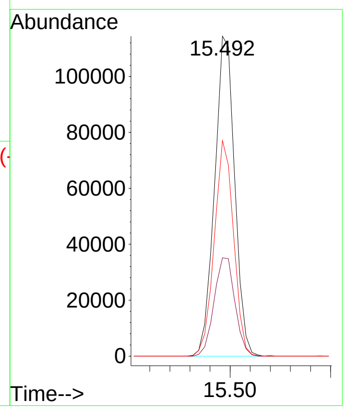
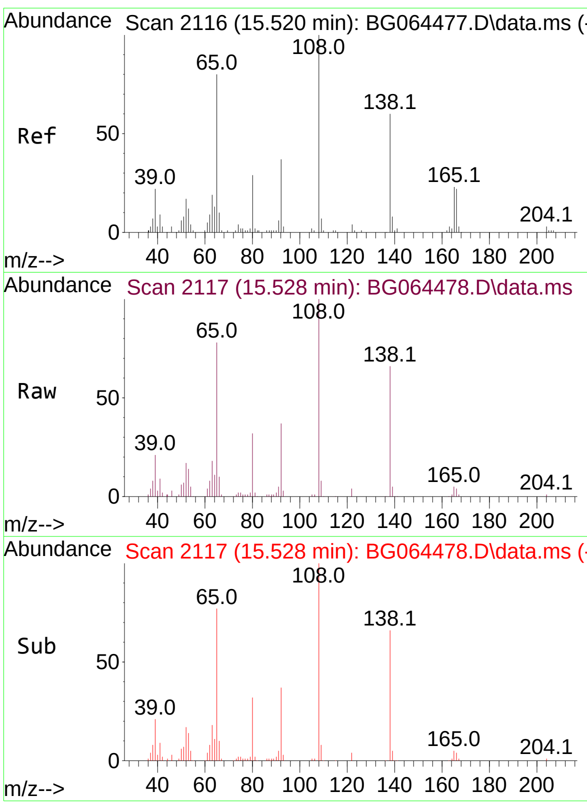



#61
4-Chlorophenyl-phenylether
Concen: 49.191 ng
RT: 15.492 min Scan# 21
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:204 Resp: 15914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 30.7 | 27.1 | 40.7 |
| 141 | 67.4 | 51.5 | 77.3 |

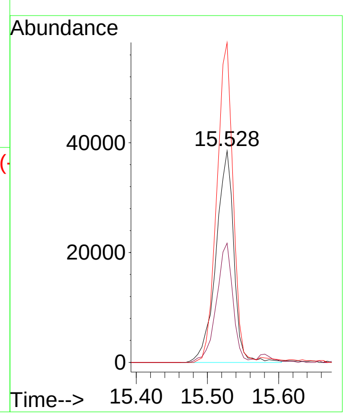



#62
4-Nitroaniline
Concen: 55.050 ng
RT: 15.528 min Scan# 2117
Delta R.T. 0.016 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:138 Resp: 67296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 56.4 | 42.3 | 82.3 |
| 108 | 151.2 | 147.7 | 187.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

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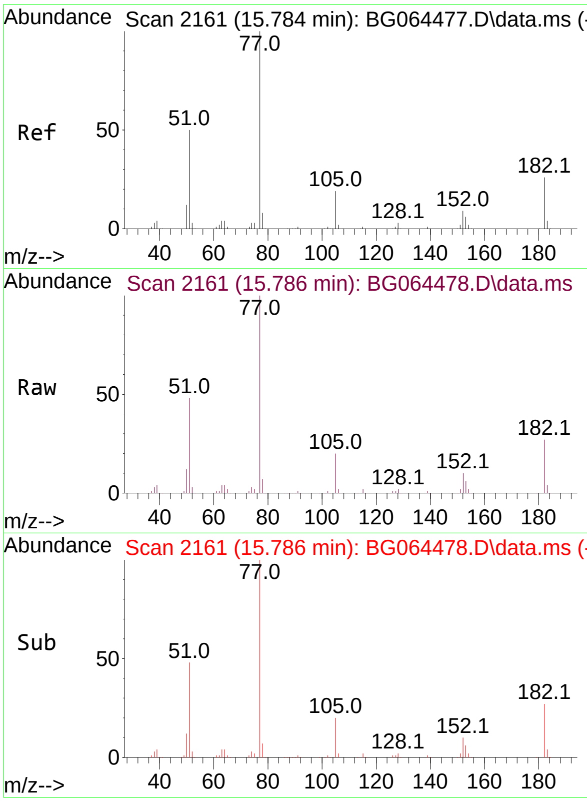
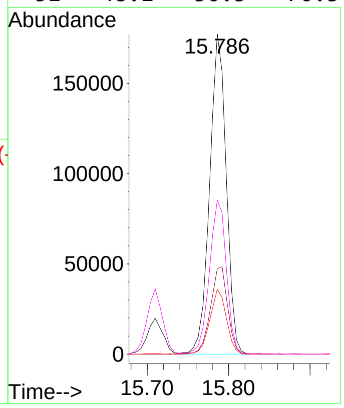
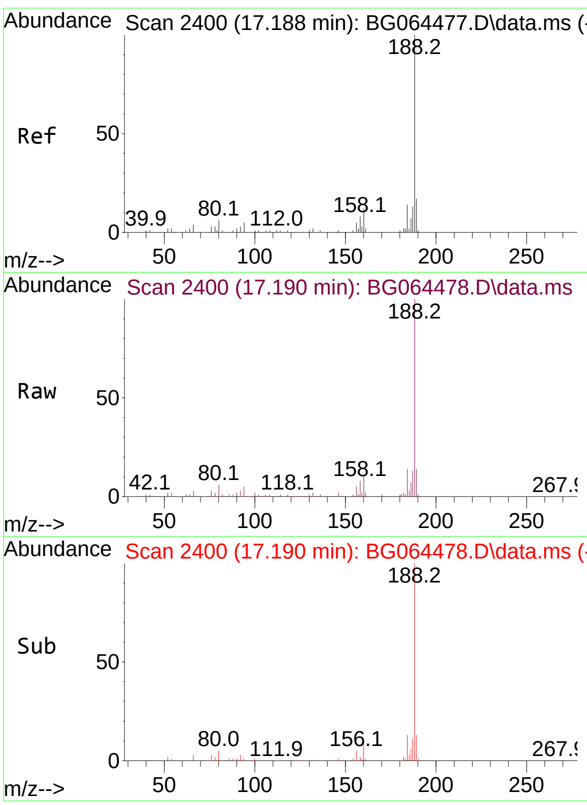



#63
Azobenzene
Concen: 49.764 ng
RT: 15.786 min Scan# 21
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion: 77 Resp: 25240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 26.7 | 6.3 | 46.3 |
| 105 | 20.3 | 0.0 | 38.7 |
| 51 | 48.1 | 30.3 | 70.3 |

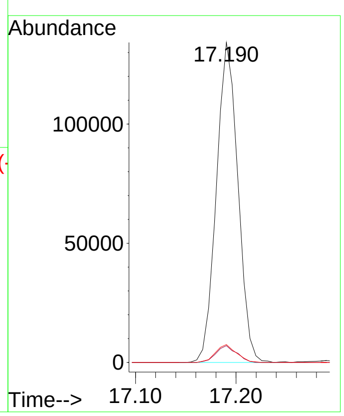


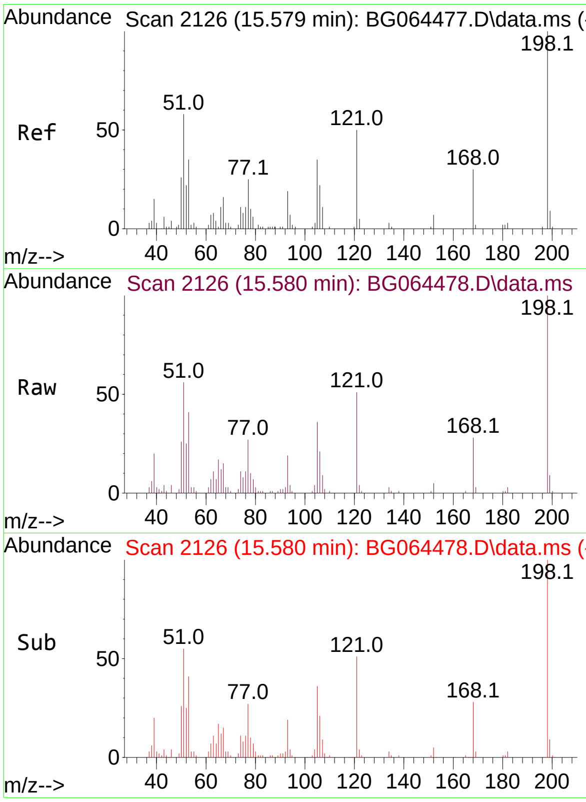




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.190 min Scan# 2400
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:188 Resp: 200361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 5.2 | 3.7 | 5.5 |
| 80 | 5.6 | 4.5 | 6.7 |






#65
4,6-Dinitro-2-methylphenol
Concen: 49.467 ng
RT: 15.580 min Scan# 21
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:198 Resp: 69009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 55.6 | 39.0 | 79.0 |
| 105 | 36.0 | 15.8 | 55.8 |

**Manual Integrations**
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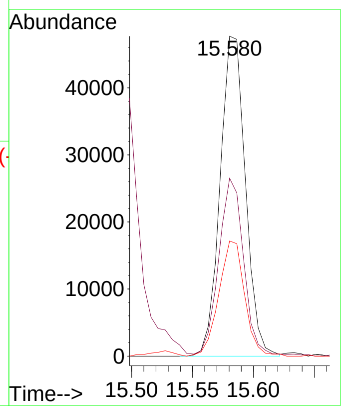
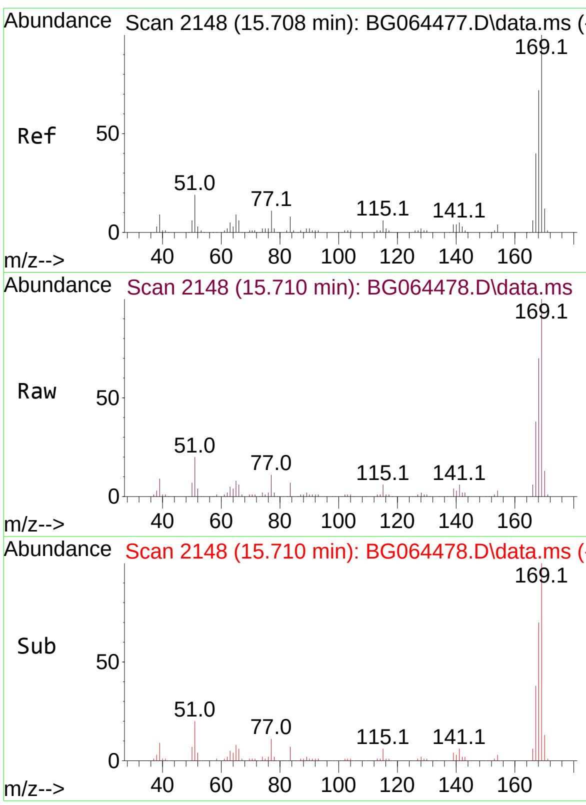
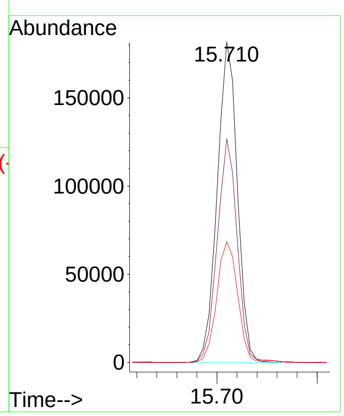



#66
n-Nitrosodiphenylamine
Concen: 47.518 ng
RT: 15.710 min Scan# 2148
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:169 Resp: 254244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 69.7 | 57.8 | 86.6 |
| 167 | 37.7 | 31.7 | 47.5 |



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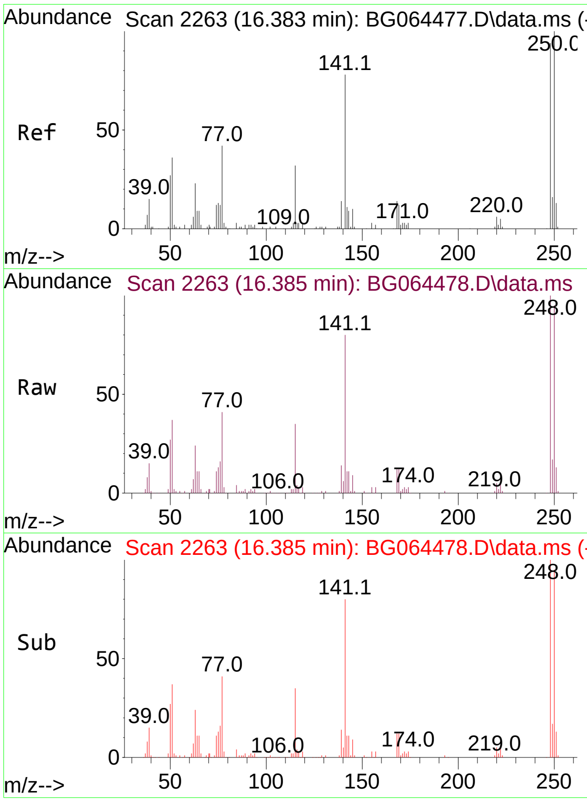


#67
4-Bromophenyl-phenylether
Concen: 47.653 ng
RT: 16.385 min Scan# 22
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

Tgt Ion:248 Resp: 112356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.7 | 85.3 | 127.9 |
| 141 | 79.7 | 66.2 | 99.2 |

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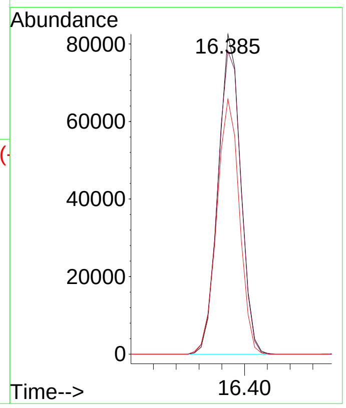
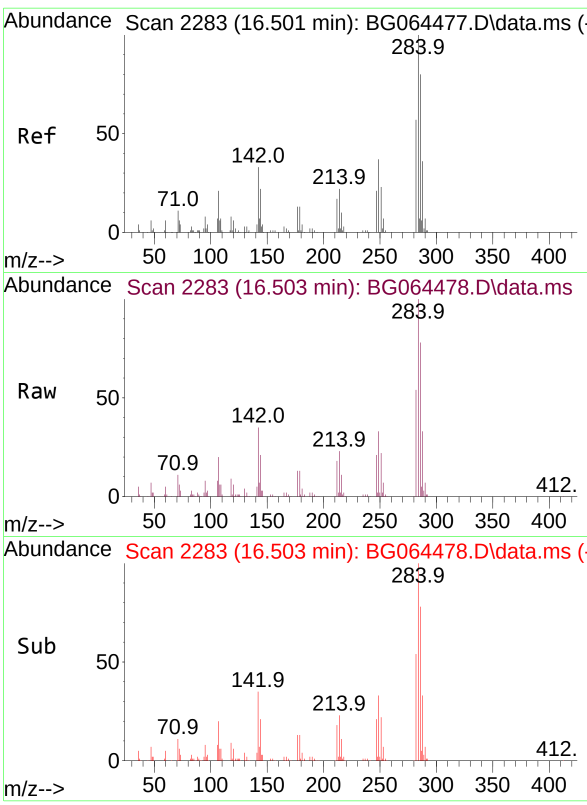
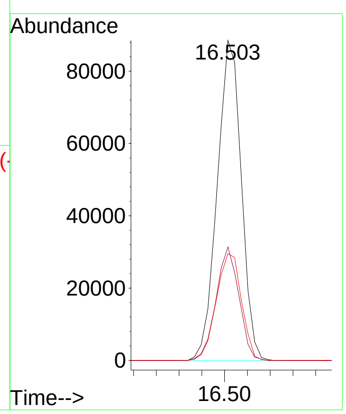



#68
Hexachlorobenzene
Concen: 48.208 ng
RT: 16.503 min Scan# 2283
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:284 Resp: 130063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.4 | 26.2 | 39.2 |
| 249 | 33.4 | 29.4 | 44.0 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
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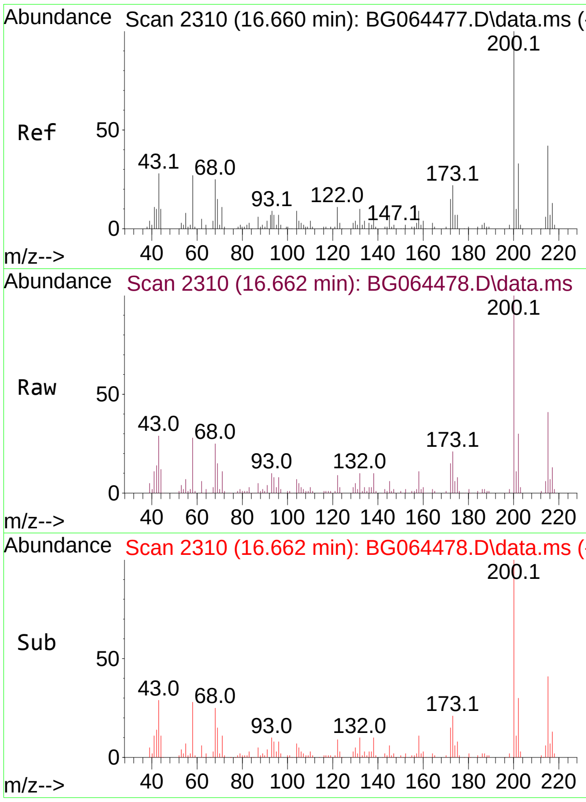
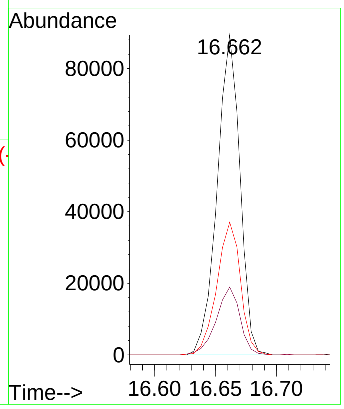
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

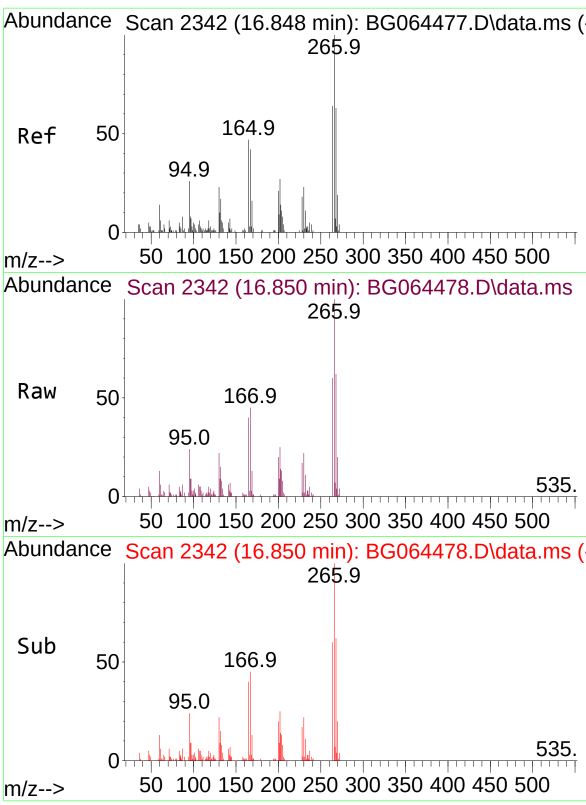



#69
Atrazine
Concen: 48.772 ng
RT: 16.662 min Scan# 2
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:200 Resp: 11609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 21.2 | 2.5 | 42.5 |
| 215 | 41.4 | 21.5 | 61.5 |

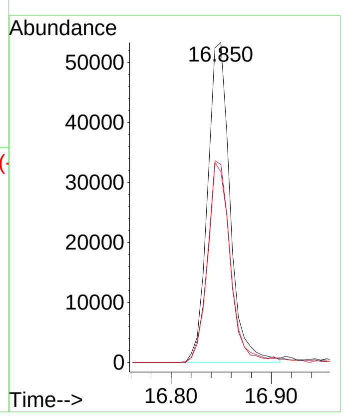



#70
Pentachlorophenol
Concen: 52.695 ng
RT: 16.850 min Scan# 2342
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:266 Resp: 83126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 61.9 | 50.6 | 75.8 |
| 264 | 59.5 | 51.2 | 76.8 |

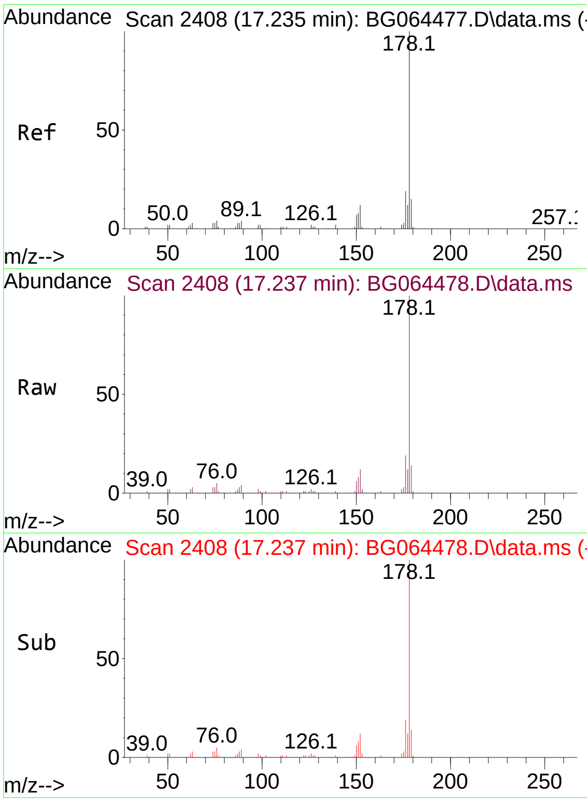


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations**
**APPROVED**

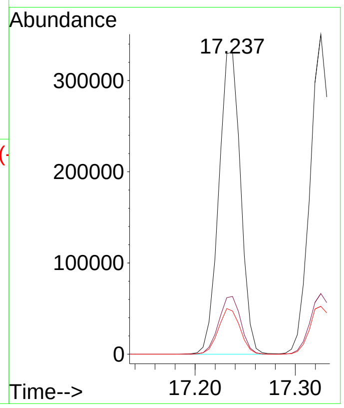
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

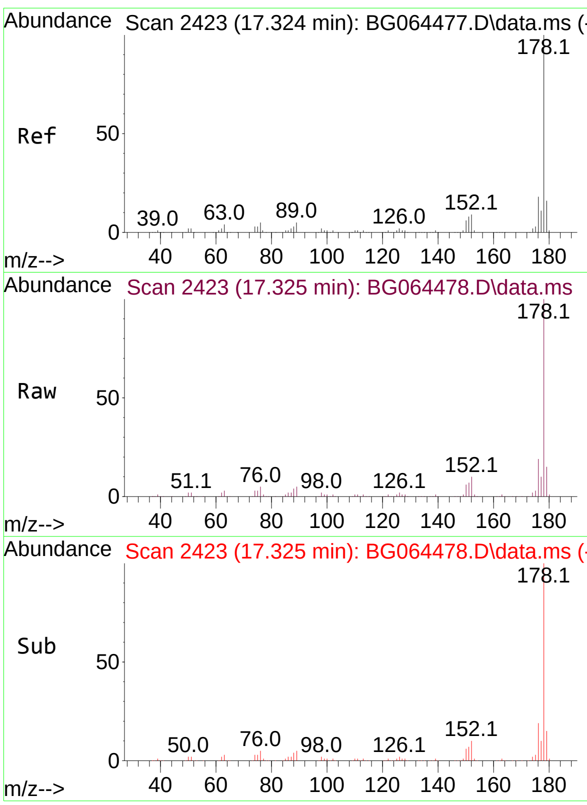



#71
Phenanthrene
Concen: 47.904 ng
RT: 17.237 min Scan# 24
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:178 Resp: 50194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.2 | 22.8 |
| 179 | 14.3 | 11.8 | 17.6 |

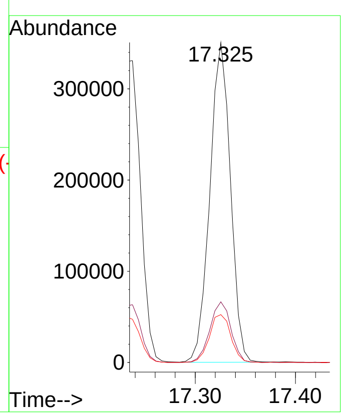


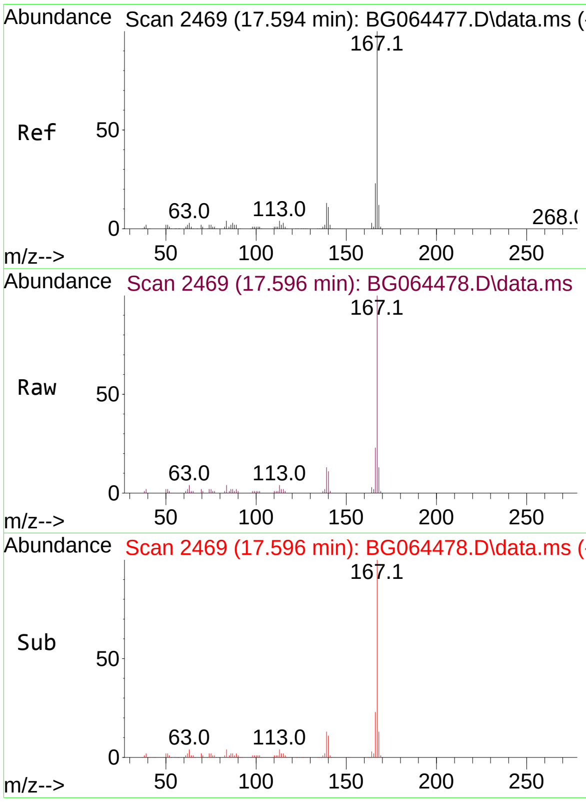

#72
Anthracene
Concen: 47.688 ng
RT: 17.325 min Scan# 2423
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:178 Resp: 501276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 14.6 | 21.8 |
| 179 | 14.9 | 12.5 | 18.7 |



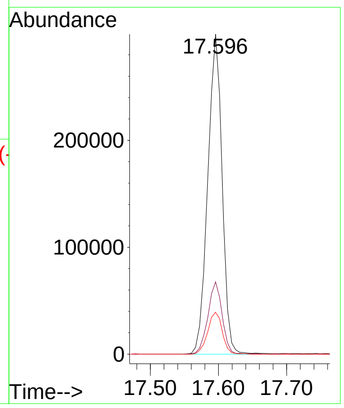
ICAL Form




#73
Carbazole
Concen:   48.370 ng
RT:  17.596 min   Scan# 24
Delta R.T.   0.004 min
Lab File:    BG064478.D
Acq:   2 Oct 2025   12:55

Tgt Ion:167 Resp:   439490

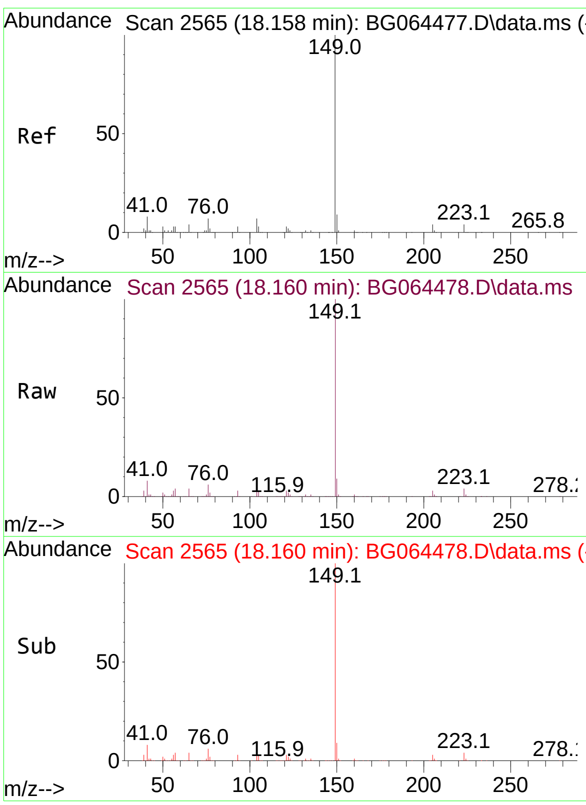
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.6 | 18.6 | 27.8 |
| 139 | 13.1 | 10.2 | 15.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

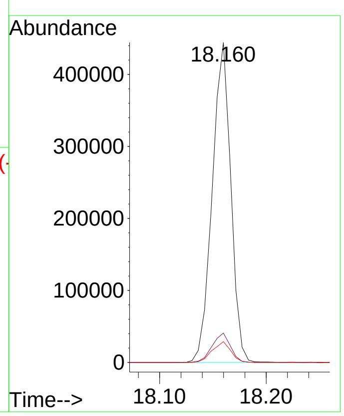
Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

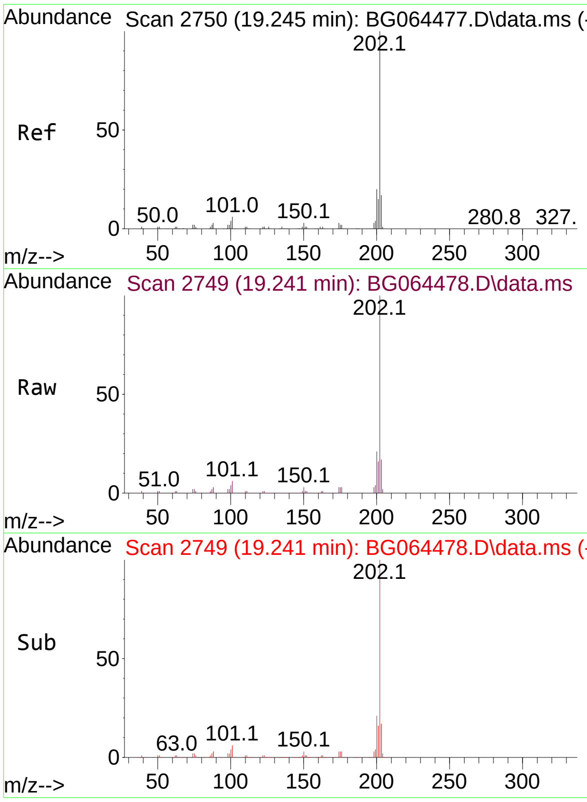



#74
Di-n-butylphthalate
Concen:   48.585 ng
RT:  18.160 min   Scan# 2565
Delta R.T.   0.004 min
Lab File:    BG064478.D
Acq:   2 Oct 2025   12:55

Tgt Ion:149 Resp:   538886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.2 |
| 104 | 6.5 | 5.3 | 7.9 |



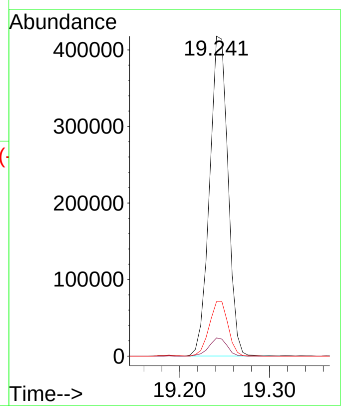


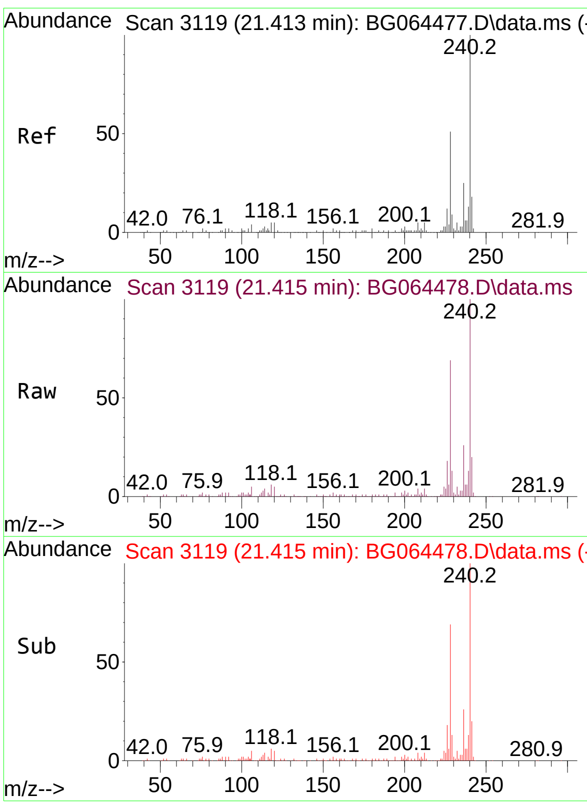

```
#75
Fluoranthene
Concen:    47.718 ng
RT:  19.241 min  Scan# 2
Delta R.T.  0.004 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:202 Resp:  59730
Ion  Ratio  Lower  Upper
202  100
101    5.7    0.0   25.7
203   17.0    0.0   36.6
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

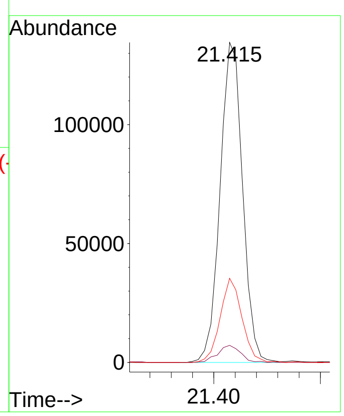
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli    10/03/2025
Supervised By :Jagrut Upadhyay    10/03/2025

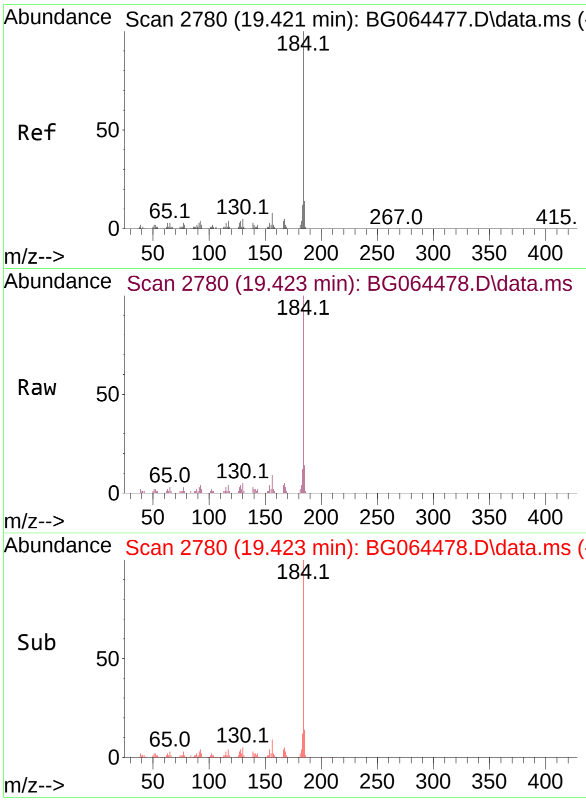



```
#76
Chrysene-d12
Concen:    20.000 ng
RT:  21.415 min  Scan# 3119
Delta R.T.  0.005 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:240 Resp:  197724
Ion  Ratio  Lower  Upper
240  100
120    5.3    4.3    6.5
236   26.3   20.4   30.6
```





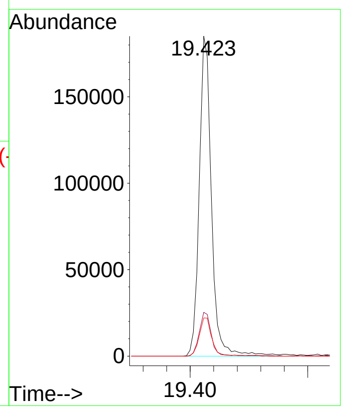

#77
Benzidine
Concen: 54.213 ng
RT: 19.423 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

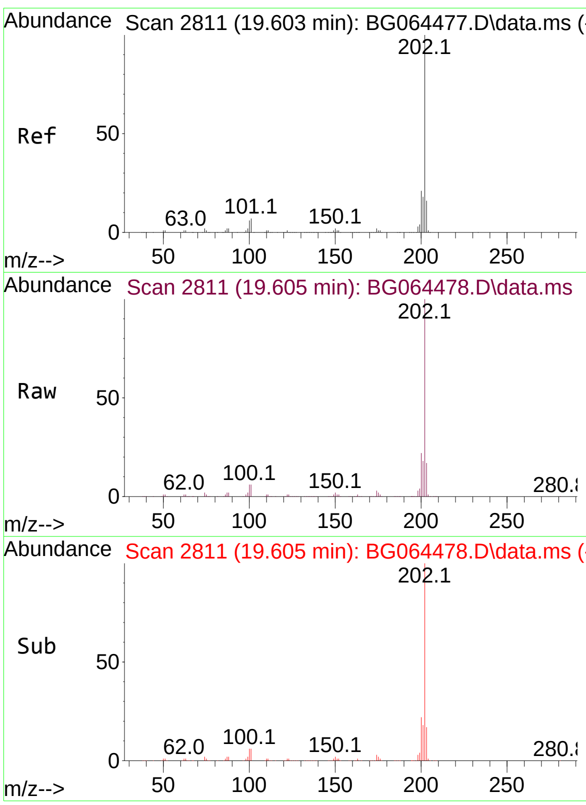
Tgt Ion:184 Resp: 26673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.7 | 10.9 | 16.3 |
| 183 | 11.9 | 9.8 | 14.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

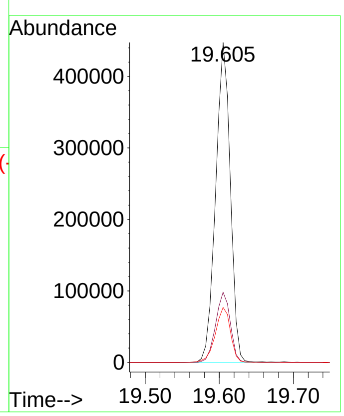


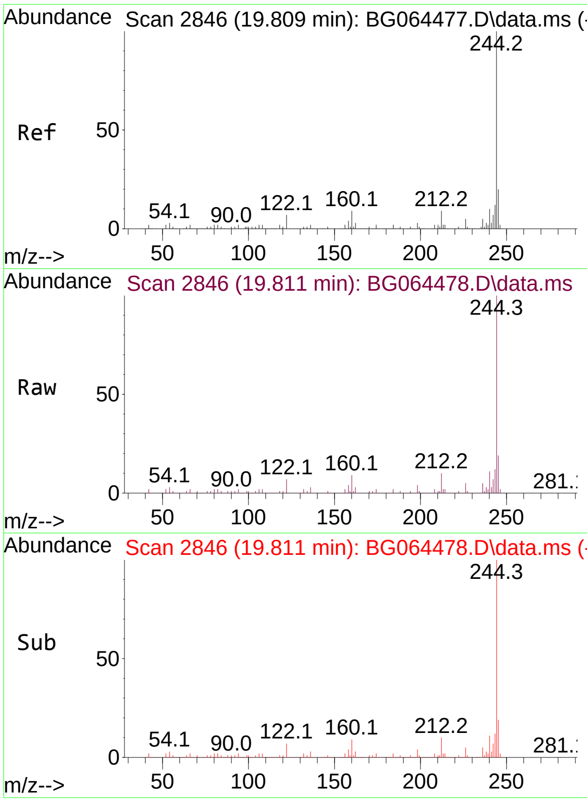




#78
Pyrene
Concen: 47.828 ng
RT: 19.605 min Scan# 2811
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:202 Resp: 613709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 17.0 | 25.4 |
| 203 | 17.2 | 13.0 | 19.4 |






#79
Terphenyl-d14
Concen:   97.457 ng
RT:  19.811 min  Scan# 28
Delta R.T.  0.004 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

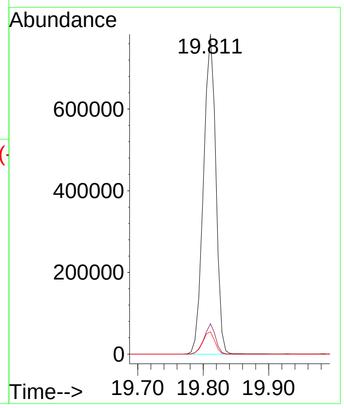
Tgt Ion:244 Resp: 101821

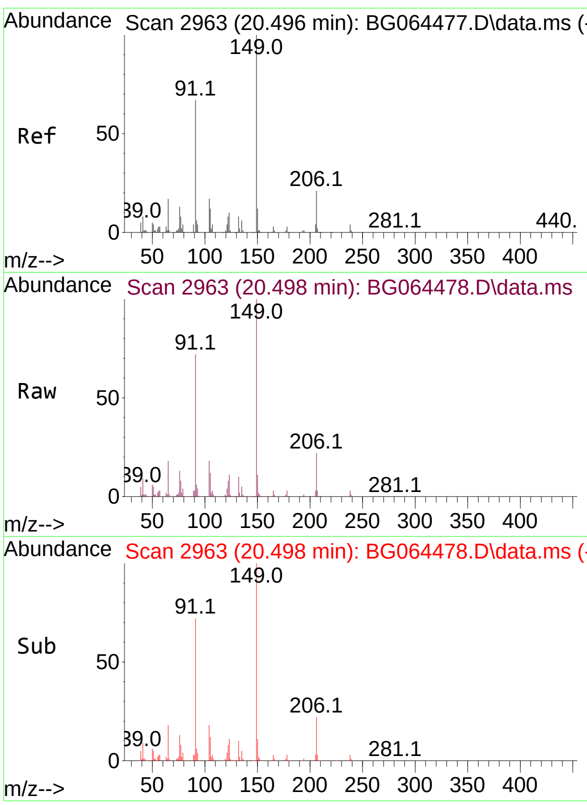
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.0 | 10.6 |
| 122 | 7.0 | 5.6 | 8.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

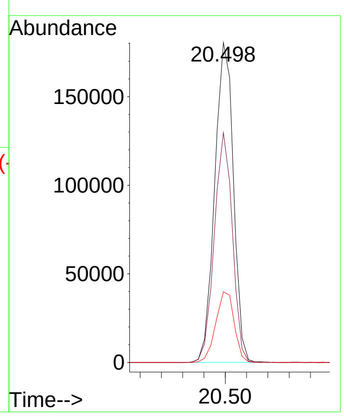


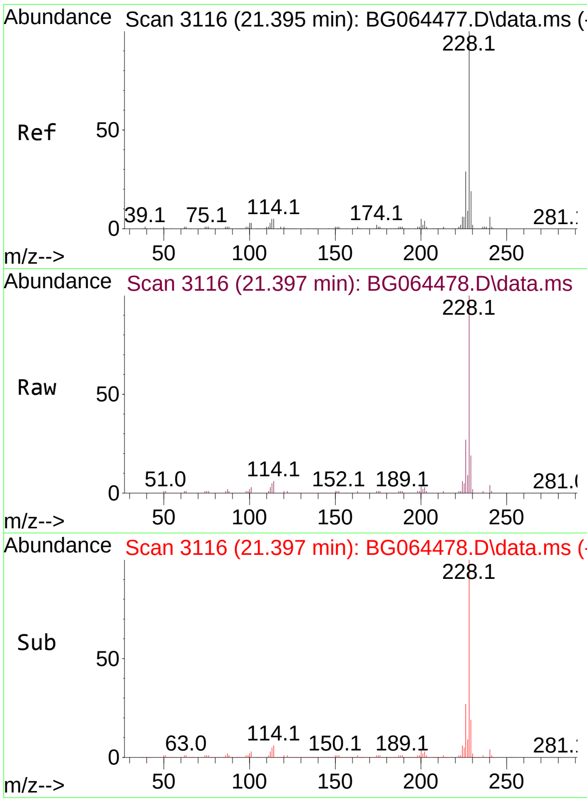




#80
Butylbenzylphthalate
Concen:   48.623 ng
RT:  20.498 min  Scan# 2963
Delta R.T.  -0.001 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:149 Resp:  221172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 71.8 | 53.7 | 80.5 |
| 206 | 22.0 | 16.6 | 24.8 |

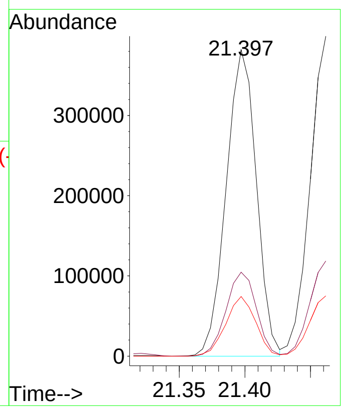





#81
Benzo(a)anthracene
Concen: 48.464 ng
RT: 21.397 min Scan# 31
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:228 Resp: 61185

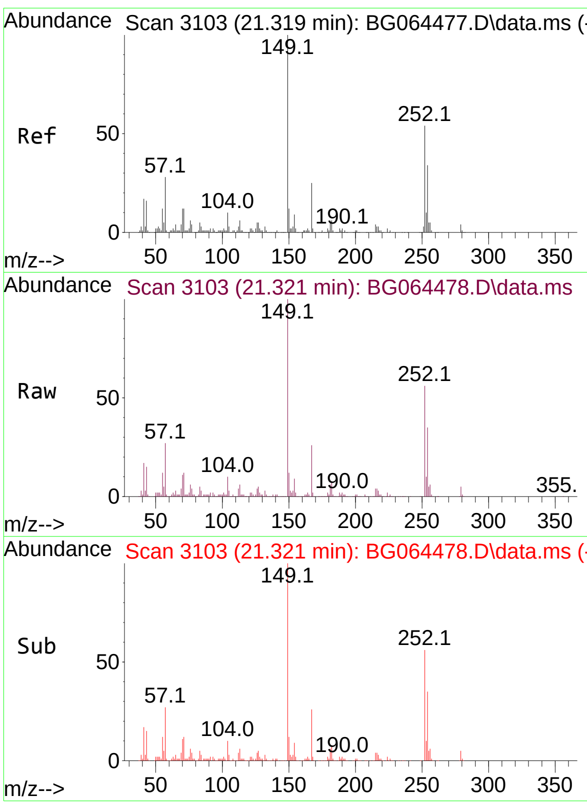
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.4 | 22.8 | 34.2 |
| 229 | 19.5 | 15.2 | 22.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

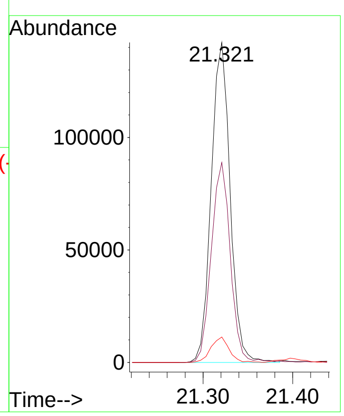
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

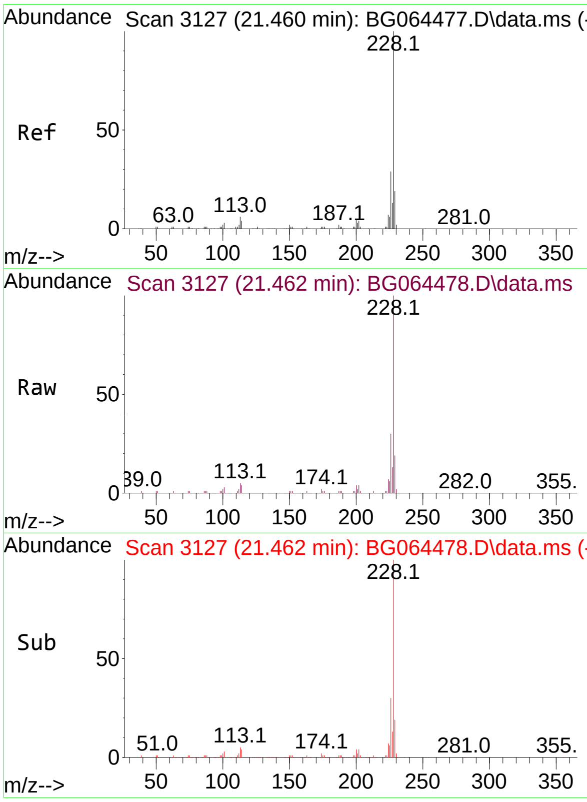



#82
3,3'-Dichlorobenzidine
Concen: 48.899 ng
RT: 21.321 min Scan# 3103
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:252 Resp: 208942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 62.5 | 50.5 | 75.7 |
| 126 | 7.9 | 7.1 | 10.7 |






#83
Chrysene
Concen: 48.408 ng
RT: 21.462 min Scan# 31
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

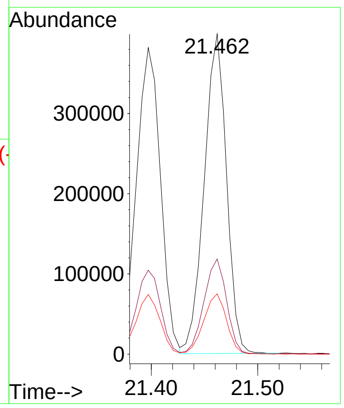
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

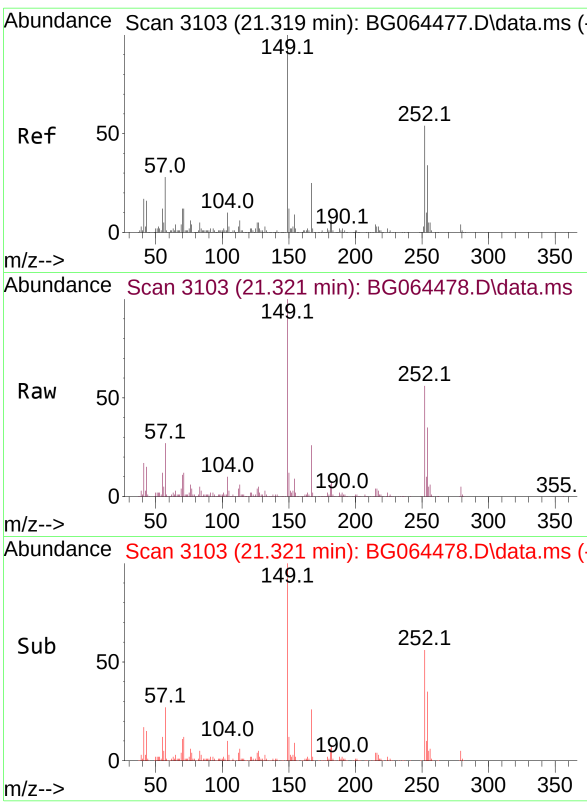
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:228 Resp: 57958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.7 | 22.8 | 34.2 |
| 229 | 18.8 | 15.4 | 23.0 |

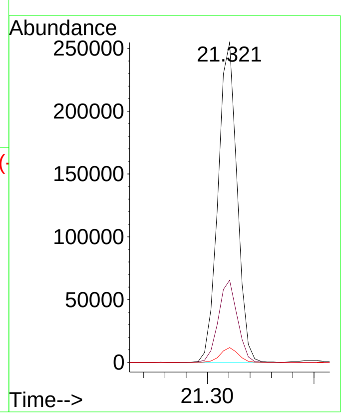


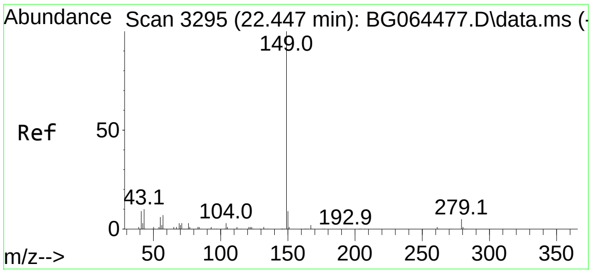



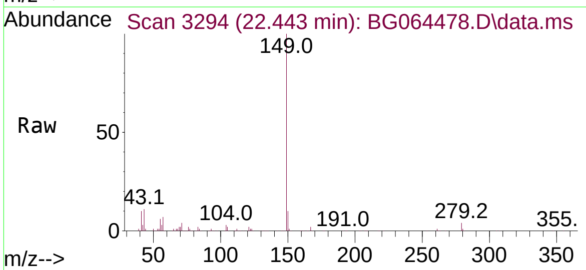

#84
Bis(2-ethylhexyl)phthalate
Concen: 49.393 ng
RT: 21.321 min Scan# 3103
Delta R.T. 0.004 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

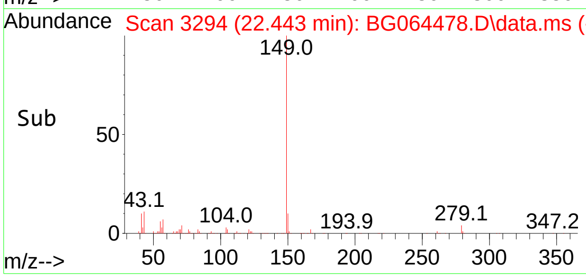
Tgt Ion:149 Resp: 317005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.7 | 19.7 | 29.5 |
| 279 | 4.6 | 3.4 | 5.2 |





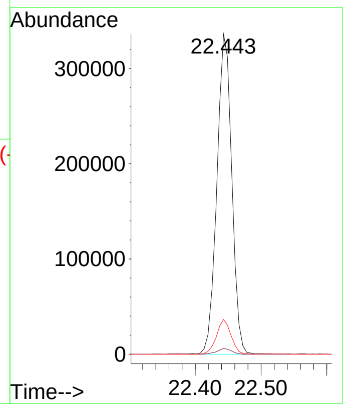

#85
Di-n-octyl phthalate
Concen:   49.179 ng
RT:  22.443 min  Scan# 3
Delta R.T.  0.004 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

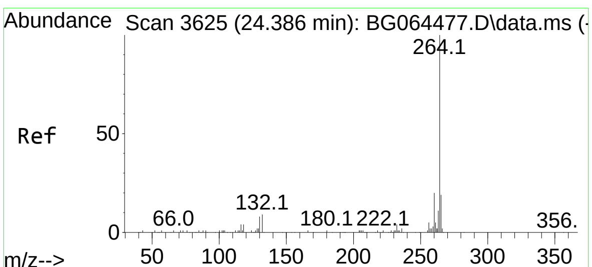
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

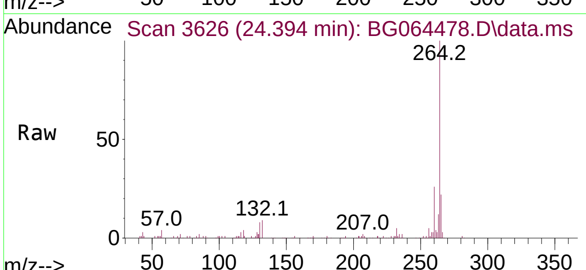
Tgt Ion:149 Resp:  530469

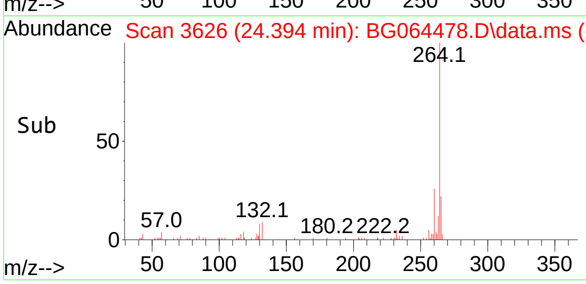
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 10.5 | 7.9 | 11.9 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025



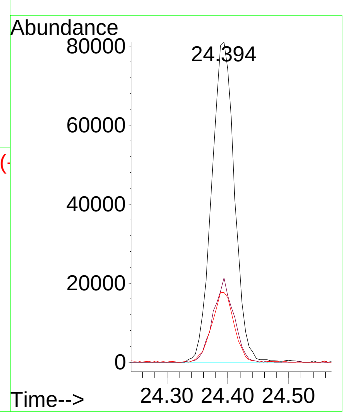



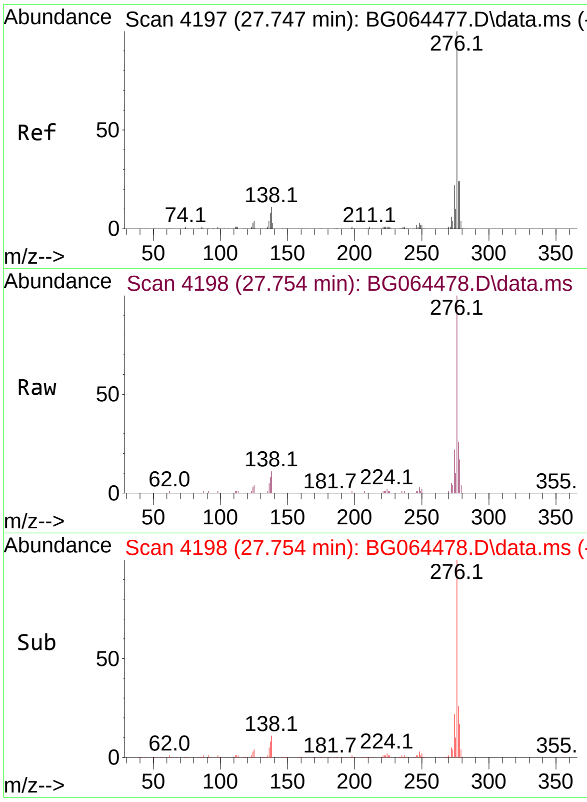




#86
Perylene-d12
Concen:   20.000 ng
RT:  24.394 min  Scan# 3626
Delta R.T.  0.004 min
Lab File:   BG064478.D
Acq:  2 Oct 2025  12:55

Tgt Ion:264 Resp:  211036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.3 | 16.2 | 24.4# |
| 265 | 21.8 | 15.0 | 22.4 |





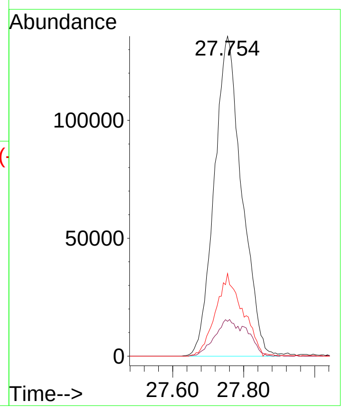

#87
Indeno(1,2,3-cd)pyrene
Concen: 49.822 ng
RT: 27.754 min Scan# 41
Delta R.T. 0.022 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

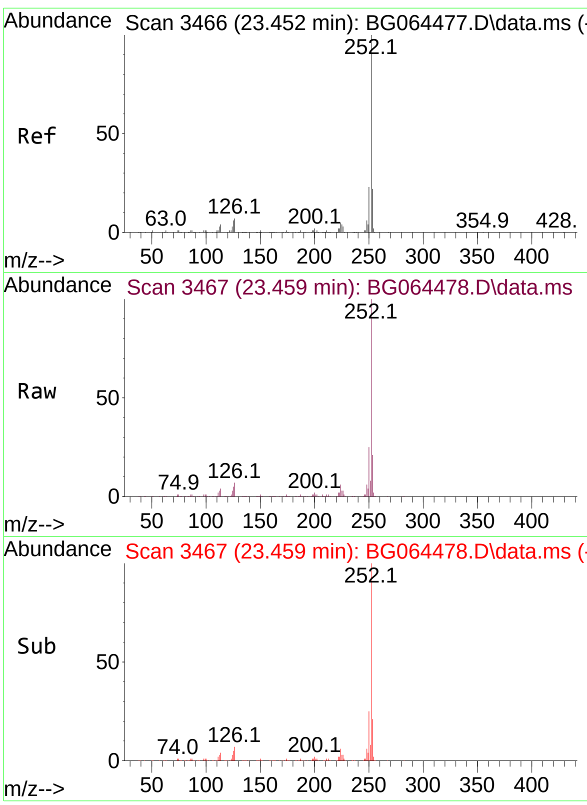
Tgt Ion:276 Resp: 73185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 9.5 | 10.8 | 16.2# |
| 277 | 25.3 | 20.3 | 30.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

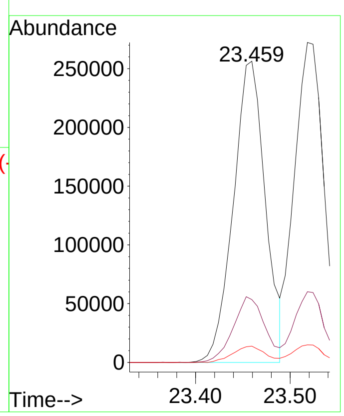


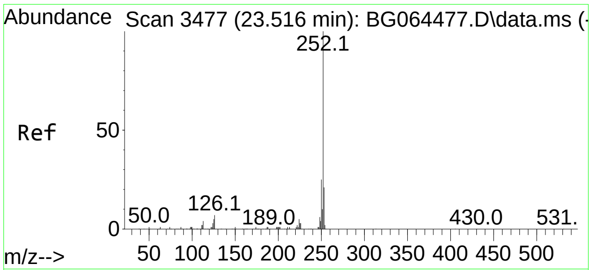



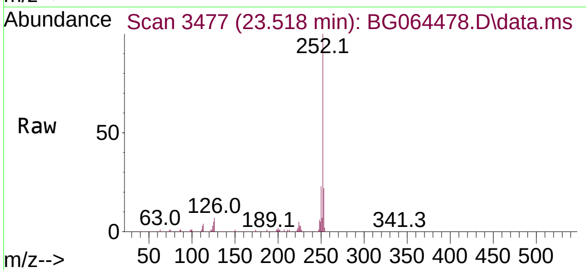

#88
Benzo(b)fluoranthene
Concen: 50.163 ng
RT: 23.459 min Scan# 3467
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

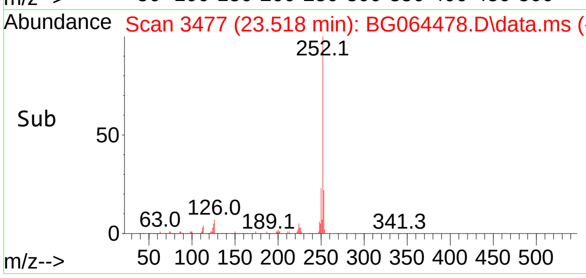
Tgt Ion:252 Resp: 602249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.8 | 17.5 | 26.3 |
| 125 | 5.4 | 4.5 | 6.7 |






#89
Benzo(k)fluoranthene
Concen: 49.006 ng
RT: 23.518 min Scan# 34
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

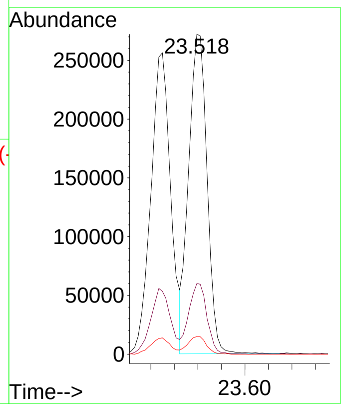
Tgt Ion:252 Resp: 59257

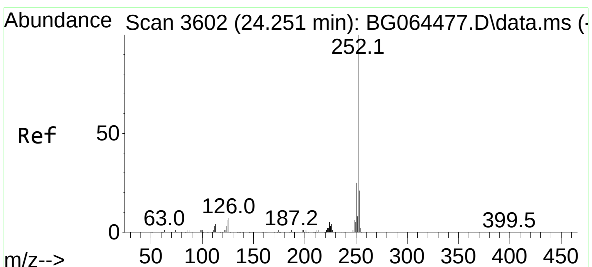
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.4 | 26.2 |
| 125 | 5.5 | 4.0 | 6.0 |

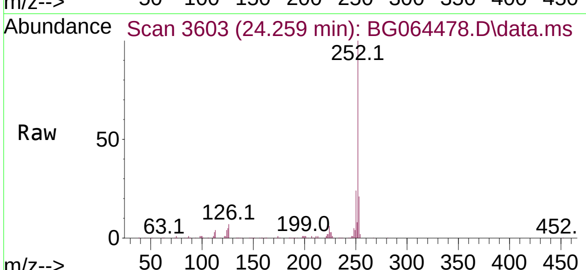
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

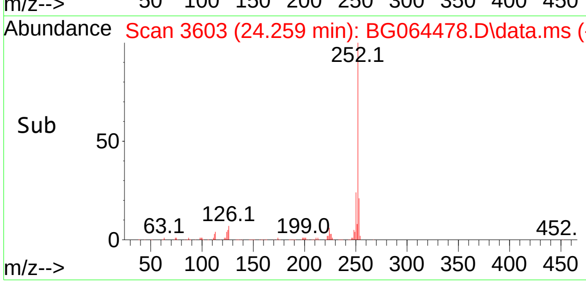
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



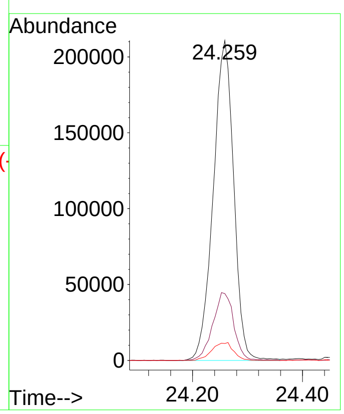



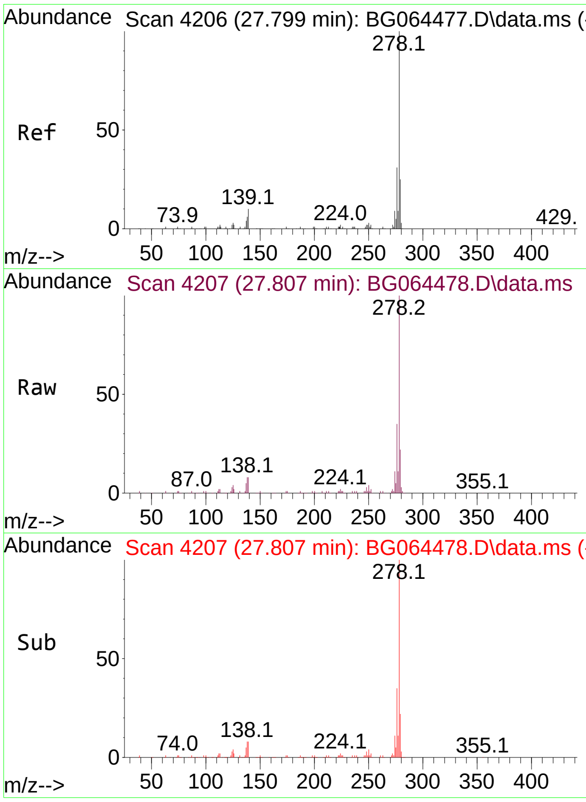




#90
Benzo(a)pyrene
Concen: 49.152 ng
RT: 24.259 min Scan# 3603
Delta R.T. 0.010 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:252 Resp: 543872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.9 | 17.1 | 25.7 |
| 125 | 5.3 | 4.6 | 6.8 |

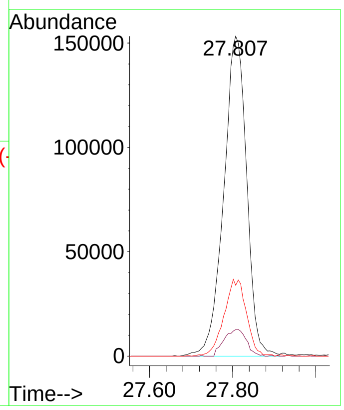





#91
Dibenzo(a,h)anthracene
Concen: 50.092 ng
RT: 27.807 min Scan# 42
Delta R.T. 0.028 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:278 Resp: 58844

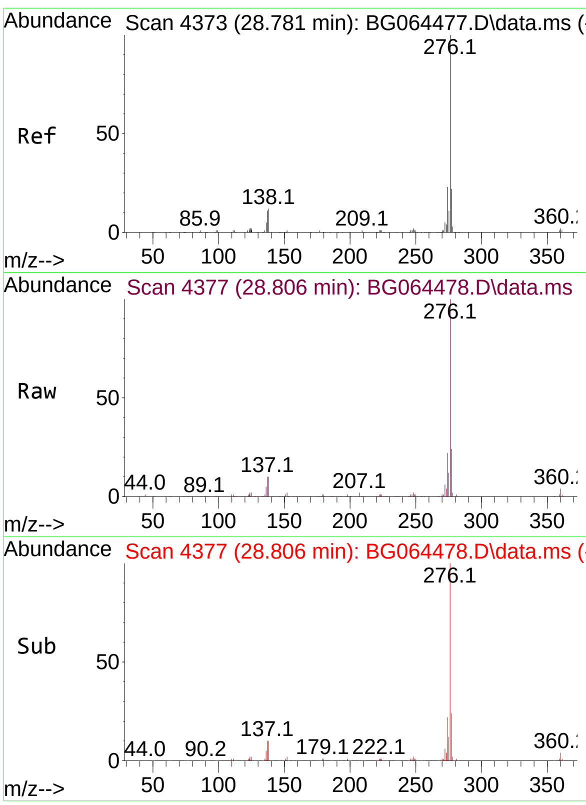
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 8.3 | 8.2 | 12.2 |
| 279 | 22.1 | 19.6 | 29.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC050

**Manual Integrations APPROVED**

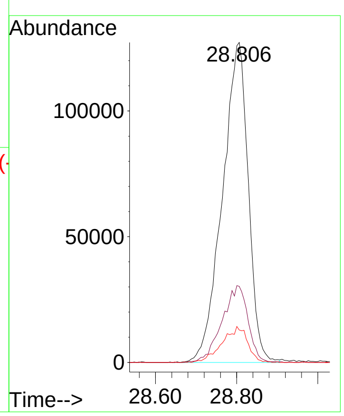
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#92
Benzo(g,h,i)perylene
Concen: 49.412 ng
RT: 28.806 min Scan# 4377
Delta R.T. 0.040 min
Lab File: BG064478.D
Acq: 2 Oct 2025 12:55

Tgt Ion:276 Resp: 564079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.8 | 17.8 | 26.6 |
| 138 | 10.1 | 9.4 | 14.0 |



Quantitation Report (QT Reviewed)

ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064479.D
Acq On : 2 Oct 2025 13:35
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 02 16:53:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.823 | 152 | 18157 | 20.000 | ng | # 0.00 |
| 21) Naphthalene-d8 | 10.614 | 136 | 79713 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.451 | 164 | 59222 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.189 | 188 | 143075 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.419 | 240 | 144920 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.386 | 264 | 155027 | 20.000 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.414 | 112 | 120711 | 123.037 | ng | 0.00 |
| 7) Phenol-d6 | 7.001 | 99 | 163006 | 123.636 | ng | 0.01 |
| 23) Nitrobenzene-d5 | 8.981 | 82 | 182017 | 122.779 | ng | 0.01 |
| 42) 2,4,6-Tribromophenol | 15.943 | 330 | 128452 | 119.659 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.076 | 172 | 493573 | 122.847 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.809 | 244 | 908174 | 118.598 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.328 | 88 | 21034 | 54.202 | ng | 99 |
| 3) Pyridine | 3.716 | 79 | 59671 | 57.214 | ng | 90 |
| 4) n-Nitrosodimethylamine | 3.634 | 42 | 45910 | 60.722 | ng | 96 |
| 6) Aniline | 7.153 | 93 | 99315 | 59.718 | ng | 95 |
| 8) 2-Chlorophenol | 7.394 | 128 | 72763 | 60.397 | ng | 95 |
| 9) Benzaldehyde | 6.965 | 77 | 84348 | 72.070 | ng | 96 |
| 10) Phenol | 7.024 | 94 | 86206 | 61.981 | ng | 96 |
| 11) bis(2-Chloroethyl)ether | 7.253 | 93 | 57983 | 61.560 | ng | 92 |
| 12) 1,3-Dichlorobenzene | 7.712 | 146 | 77246 | 58.613 | ng | 97 |
| 13) 1,4-Dichlorobenzene | 7.858 | 146 | 77379 | 58.502 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 8.176 | 146 | 76212 | 58.463 | ng | 90 |
| 15) Benzyl Alcohol | 8.064 | 79 | 76230 | 62.783 | ng | 91 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.346 | 45 | 93010 | 61.262 | ng | 95 |
| 17) 2-Methylphenol | 8.270 | 107 | 62263 | 61.823 | ng | 98 |
| 18) Hexachloroethane | 8.904 | 117 | 30824 | 59.041 | ng | 90 |
| 19) n-Nitroso-di-n-propyla... | 8.634 | 70 | 57095 | 64.752 | ng | 98 |
| 20) 3+4-Methylphenols | 8.599 | 107 | 88330 | 62.850 | ng | 94 |
| 22) Acetophenone | 8.646 | 105 | 118355 | 61.322 | ng | 96 |
| 24) Nitrobenzene | 9.022 | 77 | 90145 | 60.977 | ng | 99 |
| 25) Isophorone | 9.545 | 82 | 163941 | 61.043 | ng | # 96 |
| 26) 2-Nitrophenol | 9.727 | 139 | 44985 | 61.140 | ng | 98 |
| 27) 2,4-Dimethylphenol | 9.791 | 122 | 71145 | 63.308 | ng | 97 |
| 28) bis(2-Chloroethoxy)met... | 10.027 | 93 | 84101 | 61.433 | ng | 98 |
| 29) 2,4-Dichlorophenol | 10.262 | 162 | 80390 | 61.860 | ng | 95 |
| 30) 1,2,4-Trichlorobenzene | 10.479 | 180 | 83491 | 58.922 | ng | 94 |
| 31) Naphthalene | 10.661 | 128 | 248965 | 60.652 | ng | 99 |
| 32) Benzoic acid | 9.974 | 122 | 57724m | 66.902 | ng | |
| 33) 4-Chloroaniline | 10.767 | 127 | 97069 | 61.625 | ng | 98 |
| 34) Hexachlorobutadiene | 10.949 | 225 | 71767 | 59.141 | ng | 98 |
| 35) Caprolactam | 11.554 | 113 | 26379 | 59.294 | ng | 92 |
| 36) 4-Chloro-3-methylphenol | 11.901 | 107 | 96815 | 61.261 | ng | 98 |
| 37) 2-Methylnaphthalene | 12.271 | 142 | 190996 | 60.616 | ng | 99 |
| 38) 1-Methylnaphthalene | 12.494 | 142 | 187504 | 59.679 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 12.641 | 216 | 120531 | 63.034 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 12.623 | 237 | 67135 | 67.119 | ng | 92 |
| 43) 2,4,6-Trichlorophenol | 12.888 | 196 | 77492 | 63.395 | ng | 94 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064479.D
Acq On : 2 Oct 2025 13:35
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:53:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.958 | 196 | 84004 | 61.556 | ng | | 95 |
| 46) 1,1'-Biphenyl | 13.287 | 154 | 263596 | 61.885 | ng | | 98 |
| 47) 2-Chloronaphthalene | 13.329 | 162 | 196507 | 61.791 | ng | | 99 |
| 48) 2-Nitroaniline | 13.528 | 65 | 68465 | 63.078 | ng | | 96 |
| 49) Acenaphthylene | 14.175 | 152 | 291016 | 61.645 | ng | | 97 |
| 50) Dimethylphthalate | 13.910 | 163 | 281798 | 60.755 | ng | | 98 |
| 51) 2,6-Dinitrotoluene | 14.028 | 165 | 61222 | 63.363 | ng | | 95 |
| 52) Acenaphthene | 14.515 | 154 | 202179 | 61.643 | ng | | 97 |
| 53) 3-Nitroaniline | 14.363 | 138 | 53857 | 60.440 | ng | | 94 |
| 54) 2,4-Dinitrophenol | 14.562 | 184 | 40673 | 58.053 | ng | # | 84 |
| 55) Dibenzofuran | 14.850 | 168 | 332668 | 61.429 | ng | | 98 |
| 56) 4-Nitrophenol | 14.674 | 139 | 44975 | 64.107 | ng | | 89 |
| 57) 2,4-Dinitrotoluene | 14.821 | 165 | 89912 | 60.873 | ng | | 99 |
| 58) Fluorene | 15.502 | 166 | 272106 | 60.439 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.079 | 232 | 87720 | 62.984 | ng | | 98 |
| 60) Diethylphthalate | 15.279 | 149 | 295396 | 59.367 | ng | | 96 |
| 61) 4-Chlorophenyl-phenyle... | 15.497 | 204 | 145541 | 59.213 | ng | | 97 |
| 62) 4-Nitroaniline | 15.526 | 138 | 60477 | 65.117 | ng | | 88 |
| 63) Azobenzene | 15.784 | 77 | 229063 | 59.443 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 15.585 | 198 | 62295 | 62.533 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 15.708 | 169 | 232383 | 60.822 | ng | | 96 |
| 67) 4-Bromophenyl-phenylether | 16.384 | 248 | 101659 | 60.380 | ng | | 97 |
| 68) Hexachlorobenzene | 16.501 | 284 | 120060 | 62.318 | ng | | 96 |
| 69) Atrazine | 16.660 | 200 | 102498 | 60.299 | ng | | 98 |
| 70) Pentachlorophenol | 16.848 | 266 | 72916 | 64.730 | ng | | 99 |
| 71) Phenanthrene | 17.236 | 178 | 450582 | 60.221 | ng | | 98 |
| 72) Anthracene | 17.324 | 178 | 458626 | 61.100 | ng | | 99 |
| 73) Carbazole | 17.594 | 167 | 395523 | 60.961 | ng | | 97 |
| 74) Di-n-butylphthalate | 18.158 | 149 | 485256 | 61.267 | ng | | 100 |
| 75) Fluoranthene | 19.245 | 202 | 537693 | 60.154 | ng | | 99 |
| 77) Benzidine | 19.427 | 184 | 270028 | 74.880 | ng | | 100 |
| 78) Pyrene | 19.604 | 202 | 556837 | 59.207 | ng | | 98 |
| 80) Butylbenzylphthalate | 20.497 | 149 | 208125 | 62.426 | ng | | 98 |
| 81) Benzo(a)anthracene | 21.396 | 228 | 561451 | 60.676 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 21.319 | 252 | 192733 | 61.540 | ng | | 97 |
| 83) Chrysene | 21.460 | 228 | 525893 | 59.928 | ng | | 97 |
| 84) Bis(2-ethylhexyl)phtha... | 21.319 | 149 | 291329 | 61.932 | ng | | 95 |
| 85) Di-n-octyl phthalate | 22.447 | 149 | 489220 | 61.881 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.747 | 276 | 665573 | 61.679 | ng | # | 95 |
| 88) Benzo(b)fluoranthene | 23.452 | 252 | 543592 | 61.635 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 23.517 | 252 | 537854 | 60.551 | ng | | 100 |
| 90) Benzo(a)pyrene | 24.257 | 252 | 500159 | 61.533 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 27.806 | 278 | 535408 | 62.043 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 28.799 | 276 | 513293 | 61.207 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

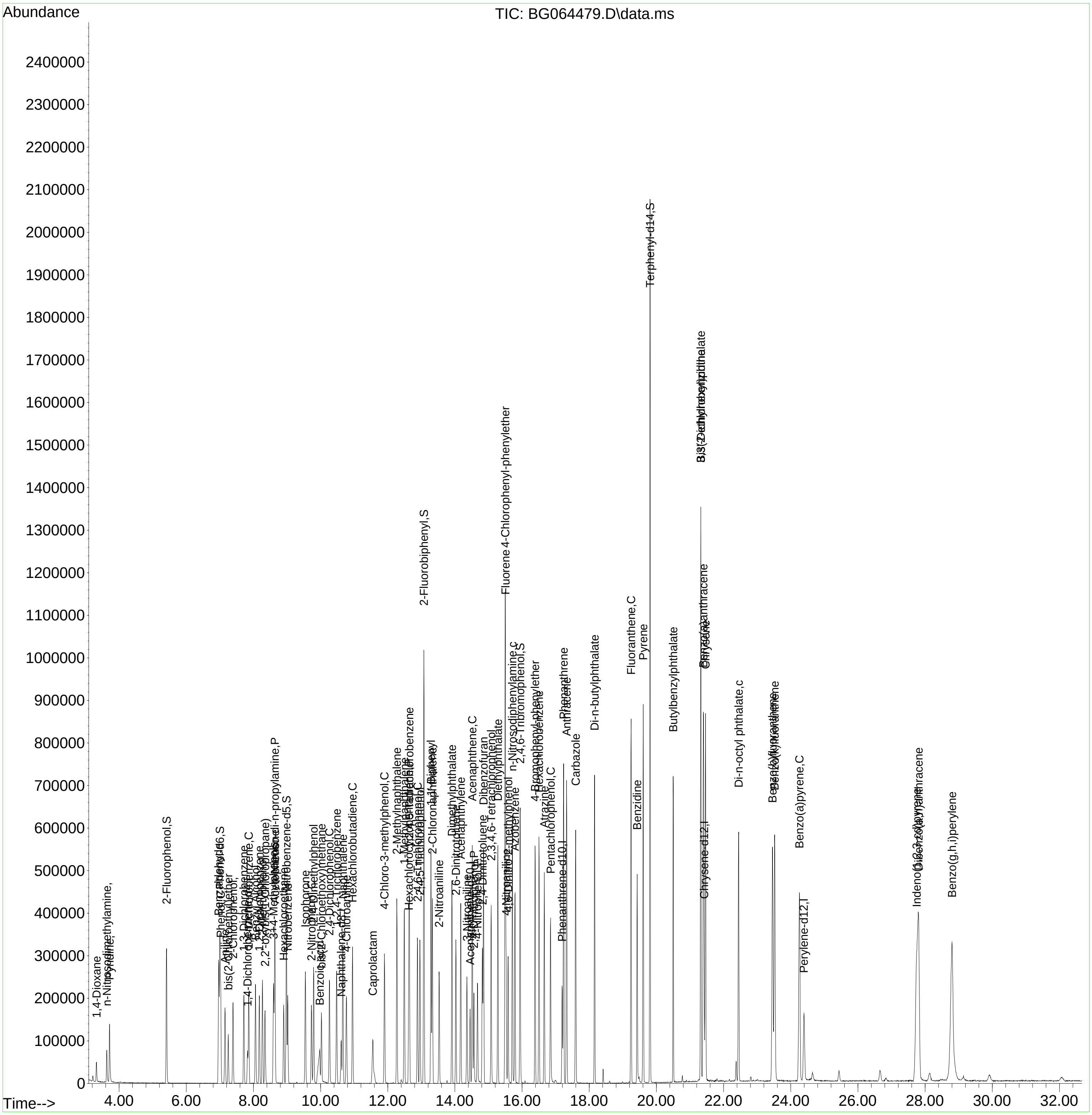
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064479.D
Acq On : 2 Oct 2025 13:35
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

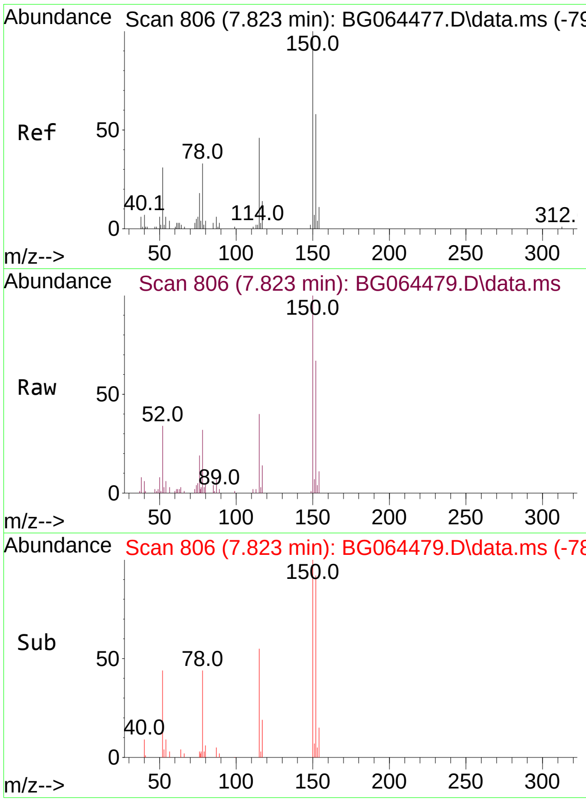
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Quant Time: Oct 02 16:53:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



ICAL Form



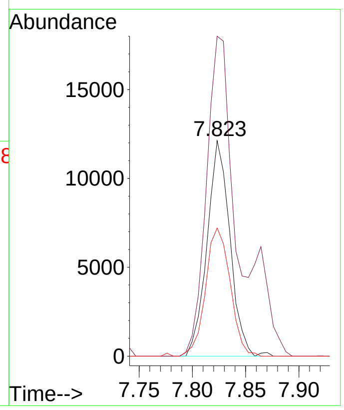

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.823 min Scan# 8(
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

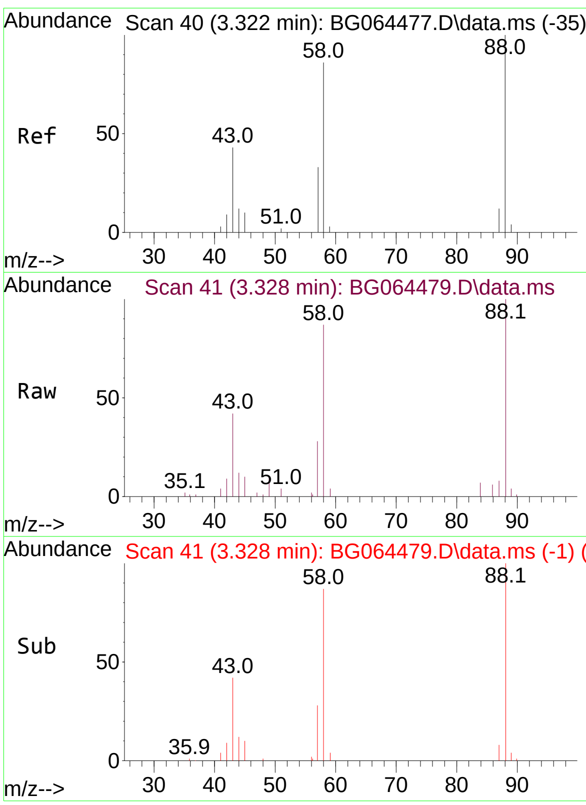
Tgt Ion:152 Resp: 18157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.6 | 138.6 | 207.8 |
| 115 | 59.5 | 63.4 | 95.2# |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

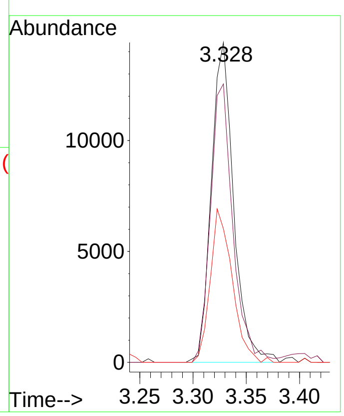


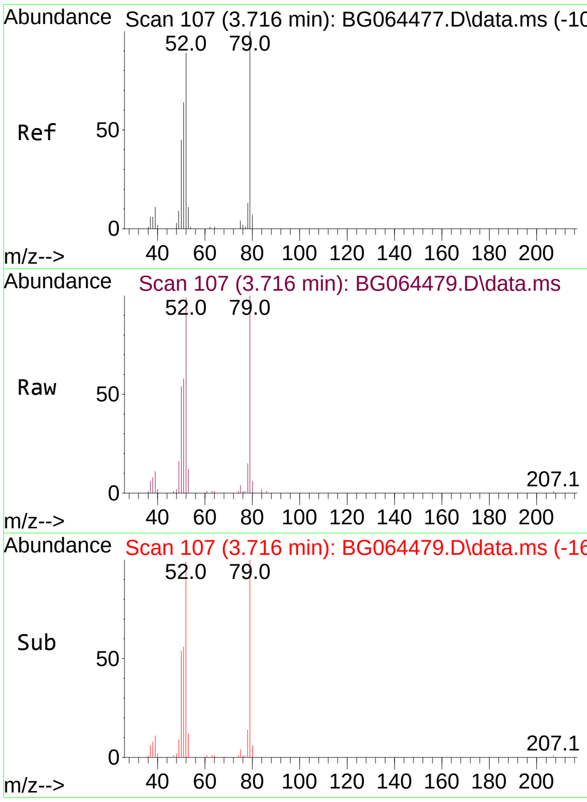

#2
1,4-Dioxane
Concen: 54.202 ng
RT: 3.328 min Scan# 41
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 88 Resp: 21034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 87.6 | 69.8 | 104.6 |
| 43 | 47.3 | 37.4 | 56.0 |



ICAL Form




#3
Pyridine
Concen: 57.214 ng
RT: 3.716 min Scan# 10
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

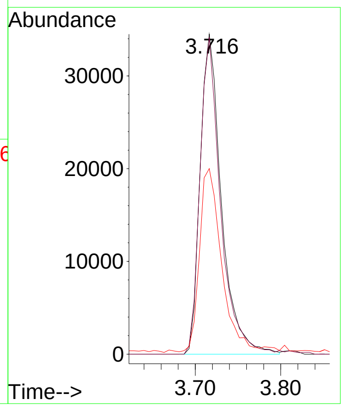
Tgt Ion: 79 Resp: 59671

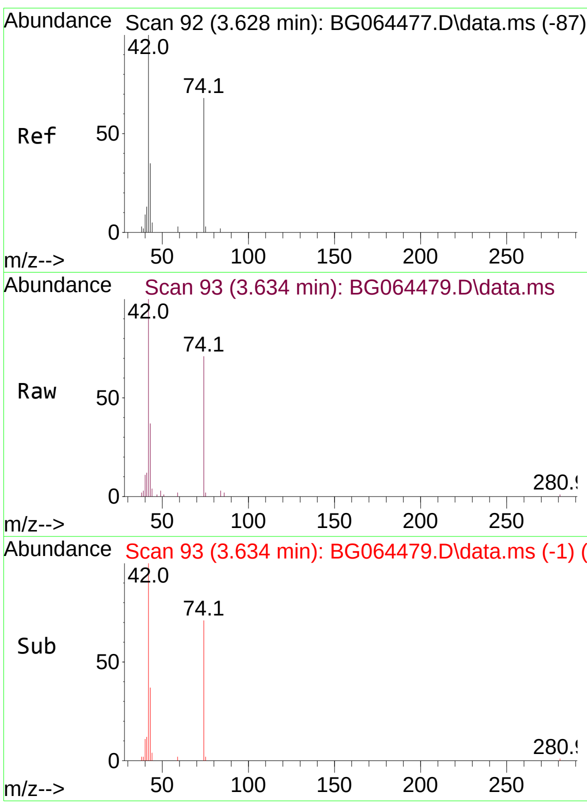
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 99.0 | 71.0 | 106.4 |
| 51 | 58.0 | 51.0 | 76.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

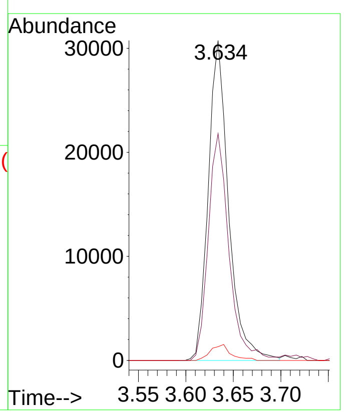



#4
n-Nitrosodimethylamine
Concen: 60.722 ng
RT: 3.634 min Scan# 93
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 42 Resp: 45910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 70.9 | 54.2 | 81.4 |
| 44 | 4.3 | 4.2 | 6.2 |

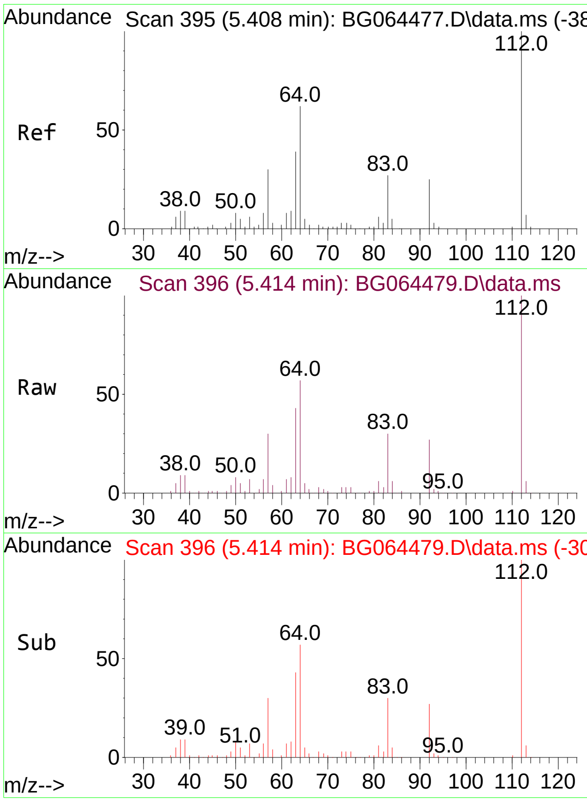


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

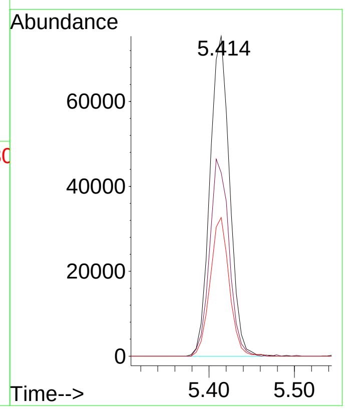
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

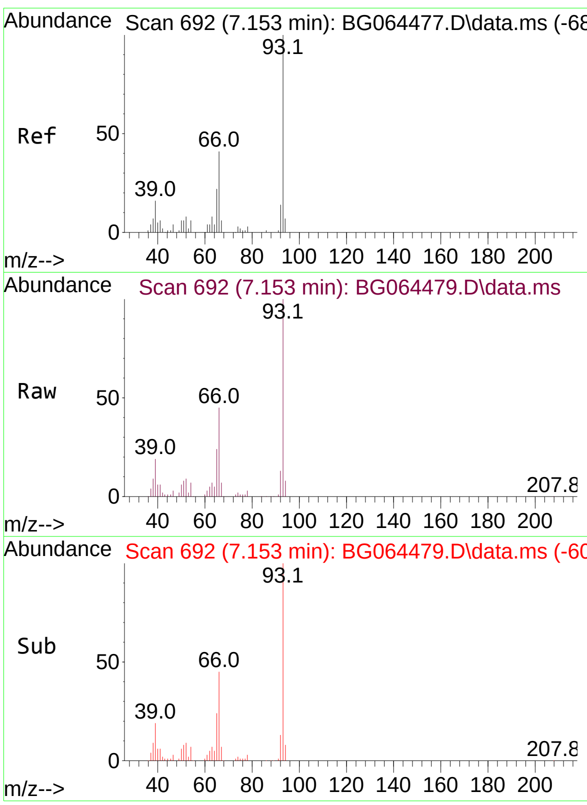



#5
2-Fluorophenol
Concen: 123.037 ng
RT: 5.414 min Scan# 39
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:112 Resp: 120711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 57.3 | 49.8 | 74.8 |
| 63 | 43.4 | 31.3 | 46.9 |

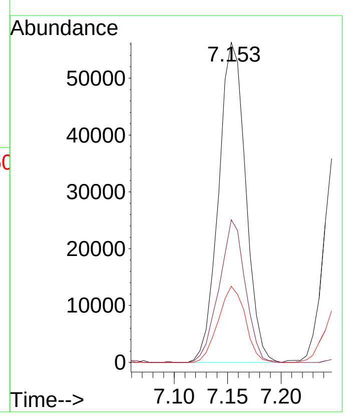


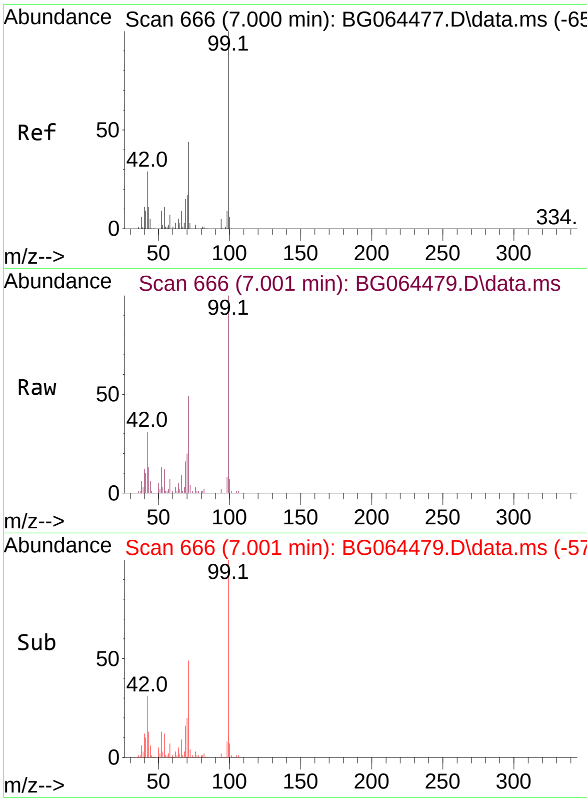

#6
Aniline
Concen: 59.718 ng
RT: 7.153 min Scan# 692
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 93 Resp: 99315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 44.6 | 33.0 | 49.4 |
| 65 | 23.8 | 17.5 | 26.3 |



ICAL Form




#7
Phenol-d6
Concen: 123.636 ng
RT: 7.001 min Scan# 66
Delta R.T. 0.014 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

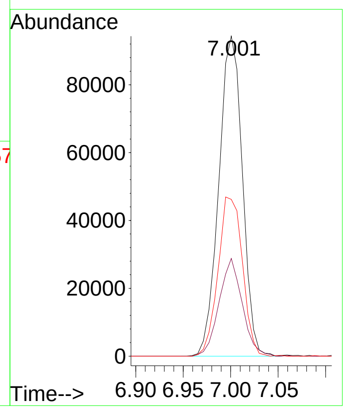
Tgt Ion: 99 Resp: 163006

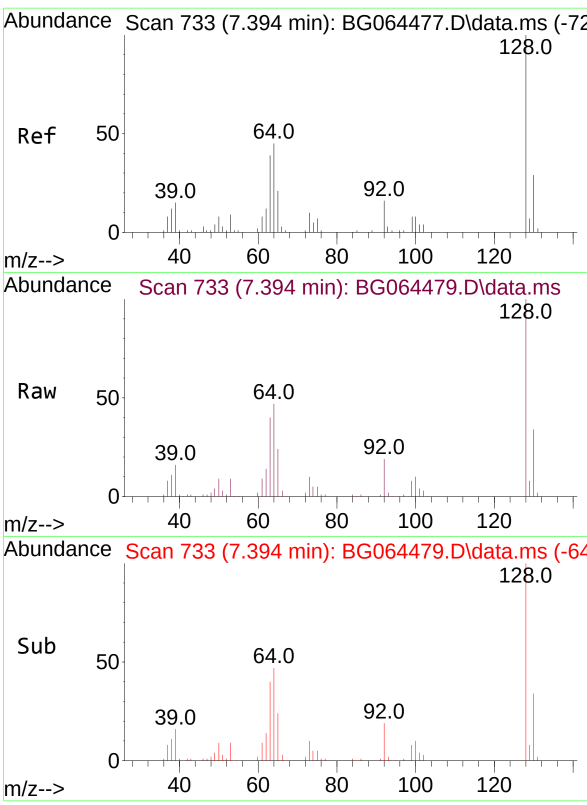
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 30.5 | 22.9 | 34.3 |
| 71 | 49.0 | 35.4 | 53.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

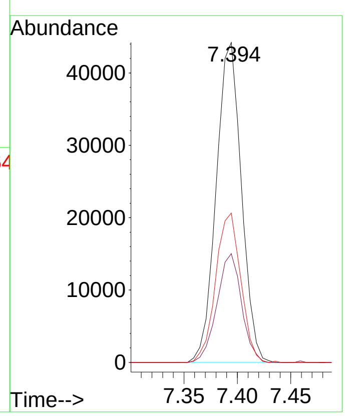


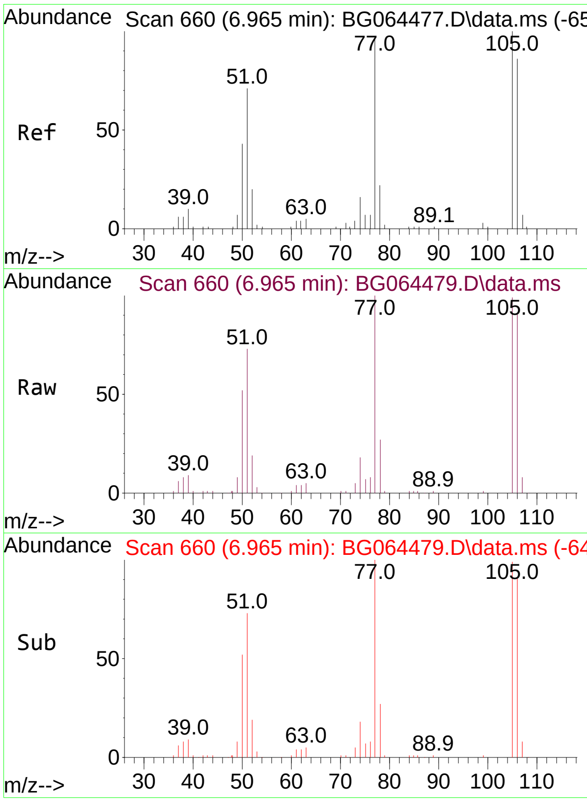

#8
2-Chlorophenol
Concen: 60.397 ng
RT: 7.394 min Scan# 733
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:128 Resp: 72763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 34.0 | 9.2 | 49.2 |
| 64 | 46.7 | 25.5 | 65.5 |



# ICAL Form




#9
Benzaldehyde
Concen: 72.070 ng
RT: 6.965 min Scan# 66
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

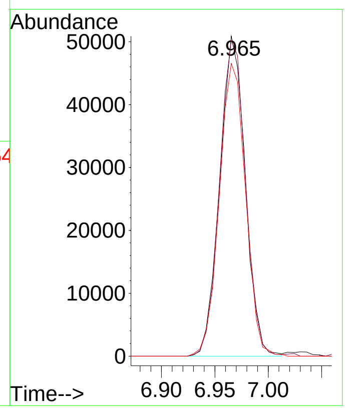
Tgt Ion: 77 Resp: 84348

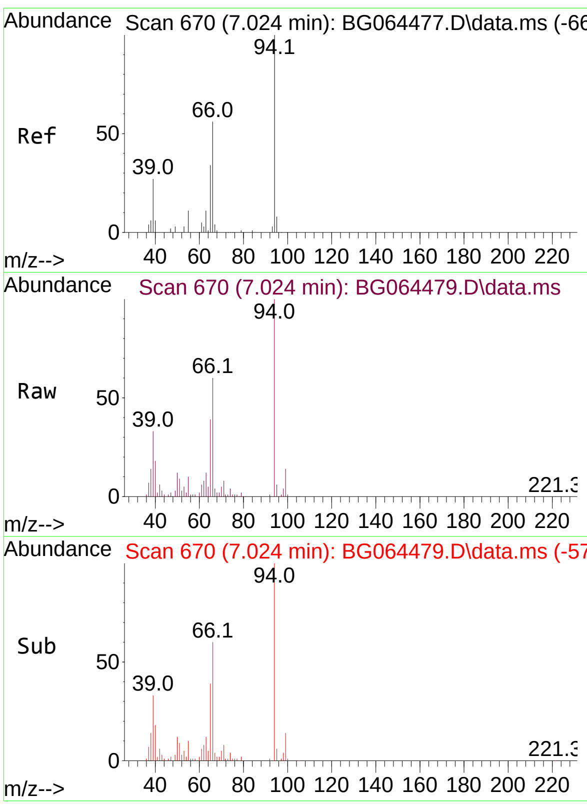
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 98.6 | 83.7 | 123.7 |
| 106 | 91.4 | 69.4 | 109.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

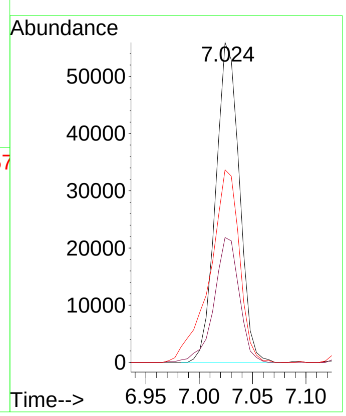


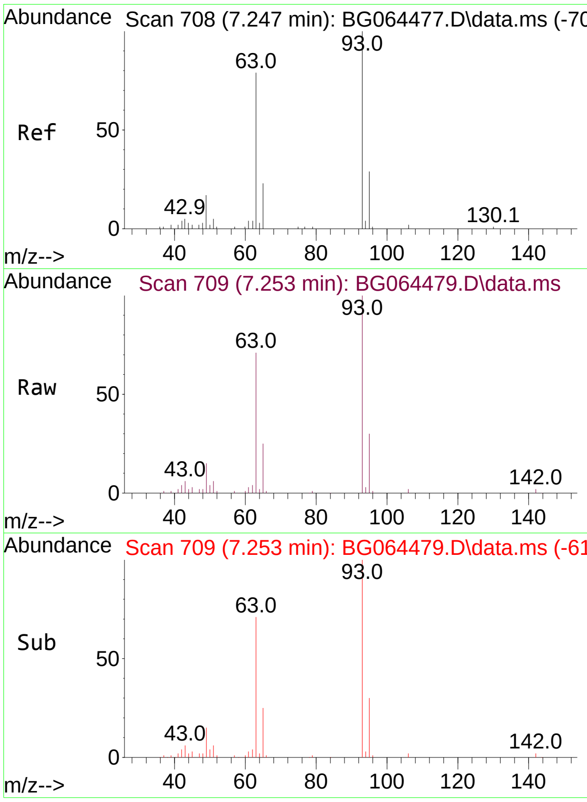




#10
Phenol
Concen: 61.981 ng
RT: 7.024 min Scan# 670
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 94 Resp: 86206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 39.0 | 14.8 | 54.8 |
| 66 | 60.2 | 41.4 | 81.4 |

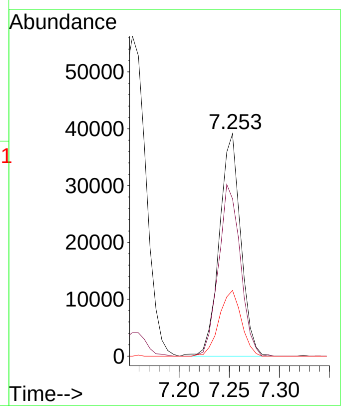





#11
bis(2-Chloroethyl)ether
Concen: 61.560 ng
RT: 7.253 min Scan# 7
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

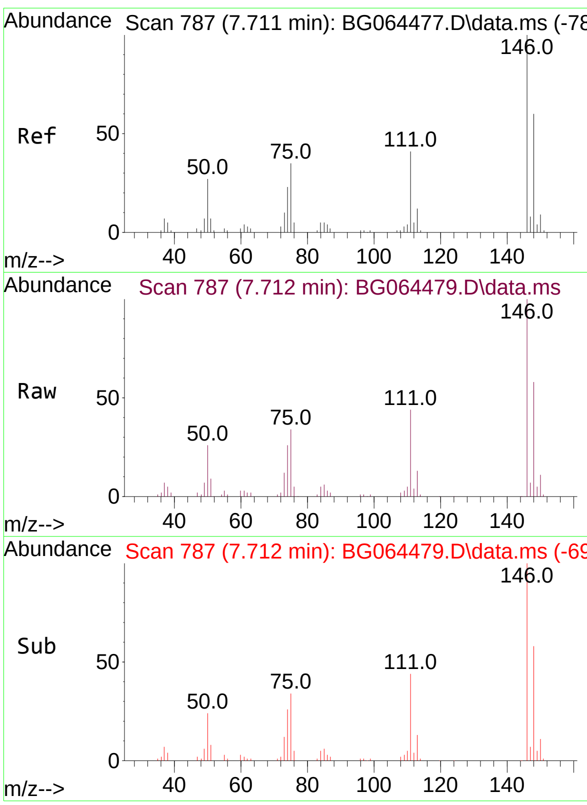
Tgt Ion: 93 Resp: 5798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 70.8 | 59.5 | 99.5 |
| 95 | 29.6 | 8.8 | 48.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

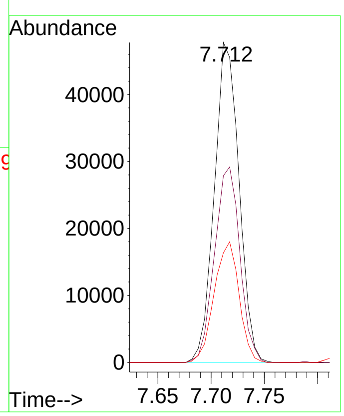
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



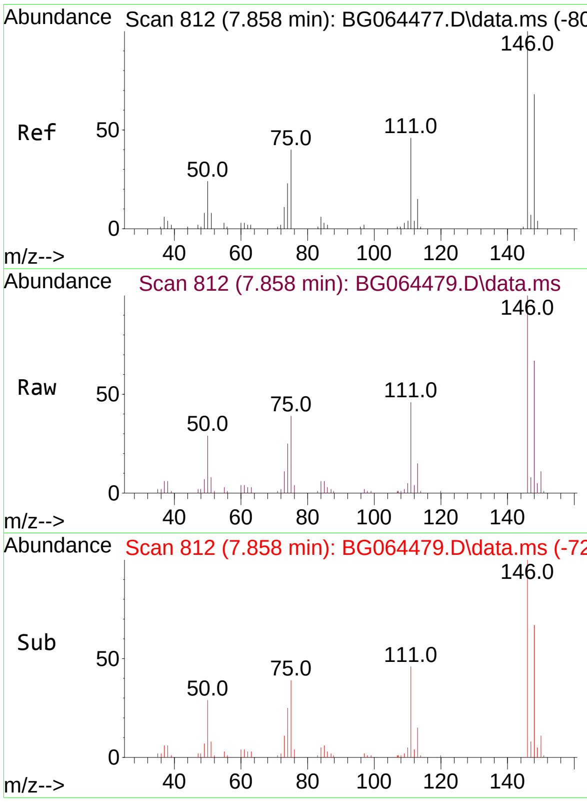

#12
1,3-Dichlorobenzene
Concen: 58.613 ng
RT: 7.712 min Scan# 787
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:146 Resp: 77246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 58.3 | 48.4 | 72.6 |
| 75 | 34.2 | 28.3 | 42.5 |



ICAL Form



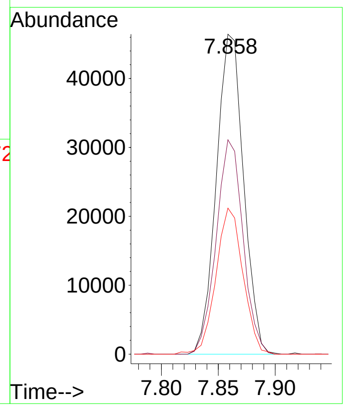

#13
1,4-Dichlorobenzene
Concen: 58.502 ng
RT: 7.858 min Scan# 81
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

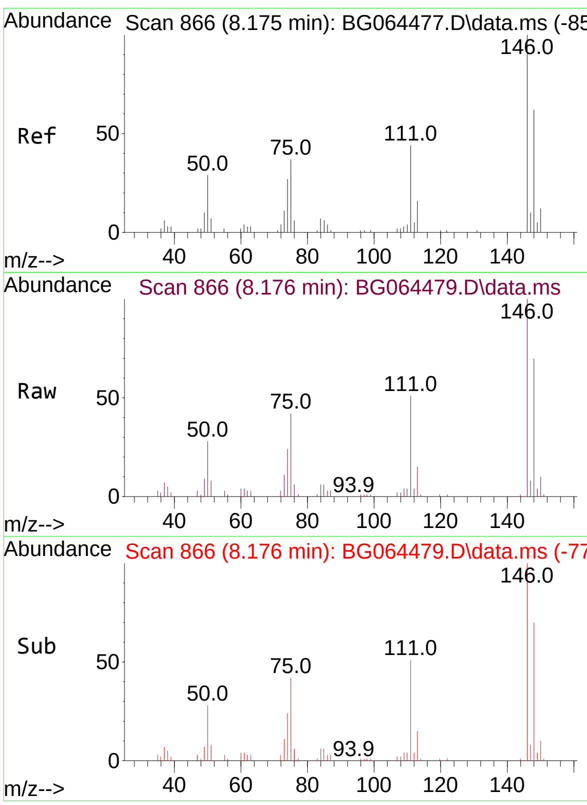
Tgt Ion:146 Resp: 77379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 67.0 | 54.4 | 81.6 |
| 111 | 45.6 | 36.5 | 54.7 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

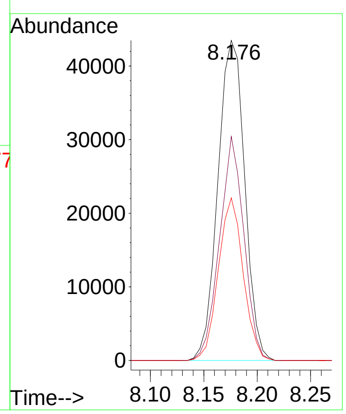


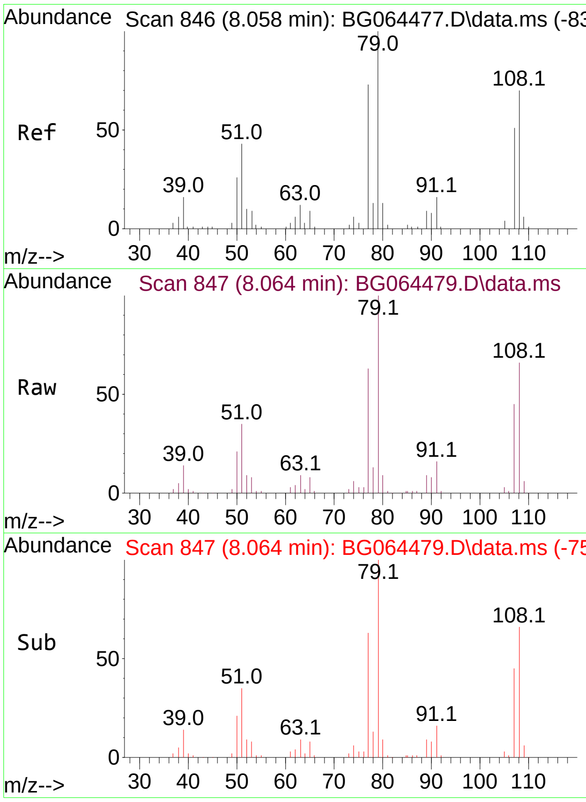

#14
1,2-Dichlorobenzene
Concen: 58.463 ng
RT: 8.176 min Scan# 866
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:146 Resp: 76212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 69.9 | 50.0 | 75.0 |
| 111 | 50.8 | 35.0 | 52.4 |



ICAL Form




#15
Benzyl Alcohol
Concen:   62.783 ng
RT:   8.064 min   Scan# 84
Delta R.T.   0.009 min
Lab File:   BG064479.D
Acq:   2 Oct 2025   13:35

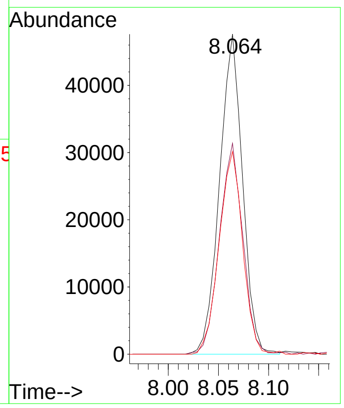
Tgt Ion: 79 Resp:   7623

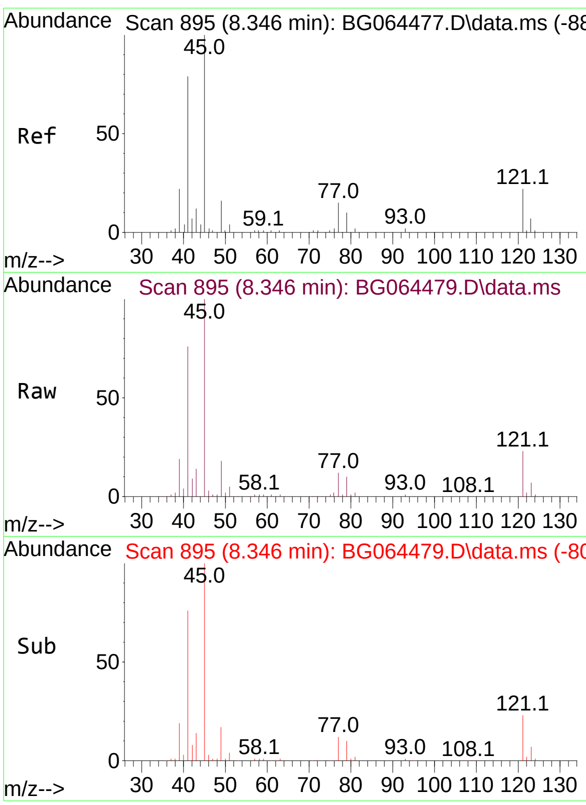
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 65.9 | 56.4 | 84.6 |
| 77 | 63.3 | 58.3 | 87.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

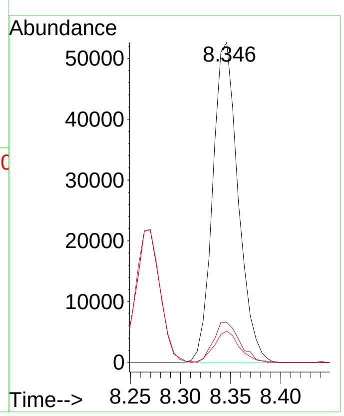


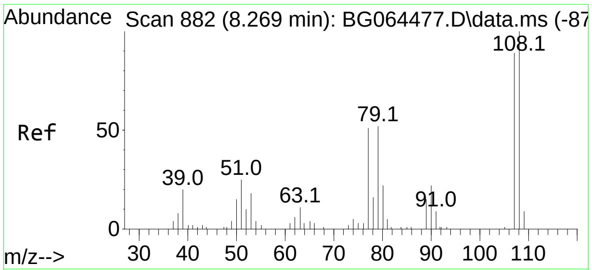



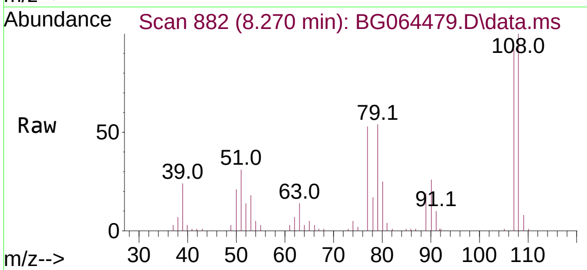

#16
2,2'-oxybis(1-Chloropropane)
Concen:   61.262 ng
RT:   8.346 min   Scan# 895
Delta R.T.   0.009 min
Lab File:   BG064479.D
Acq:   2 Oct 2025   13:35

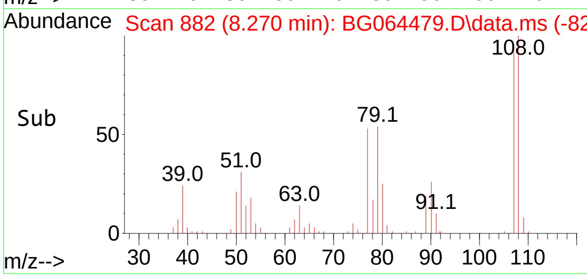
Tgt Ion: 45 Resp:   93010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 12.5 | 0.0 | 35.6 |
| 79 | 9.8 | 0.0 | 30.7 |





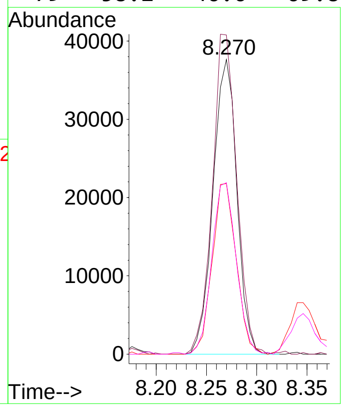




#17
2-Methylphenol
Concen: 61.823 ng
RT: 8.270 min Scan# 88
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:107 Resp: 6226

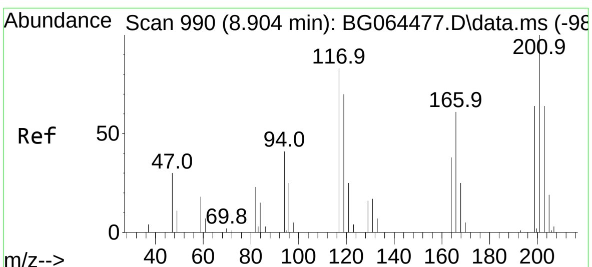
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 108.3 | 90.3 | 135.5 |
| 77 | 57.9 | 46.0 | 69.0 |
| 79 | 58.2 | 46.6 | 69.8 |

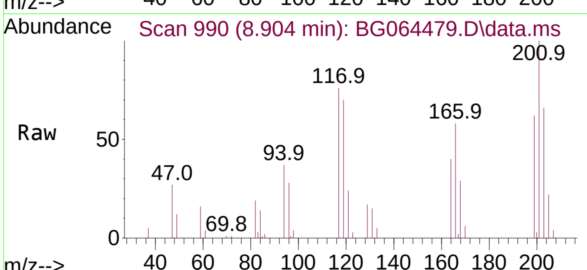


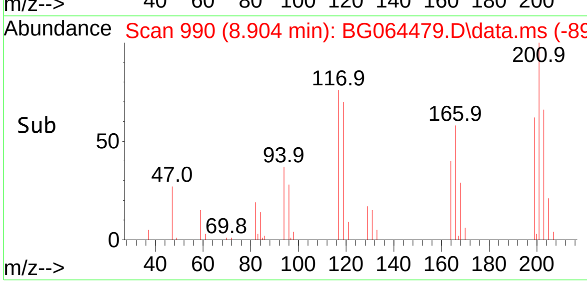

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



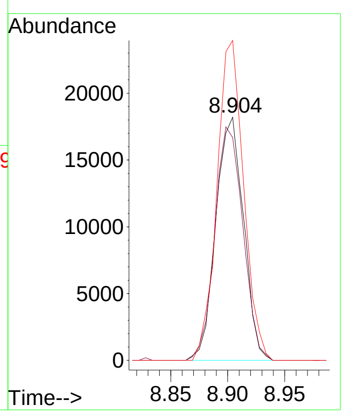



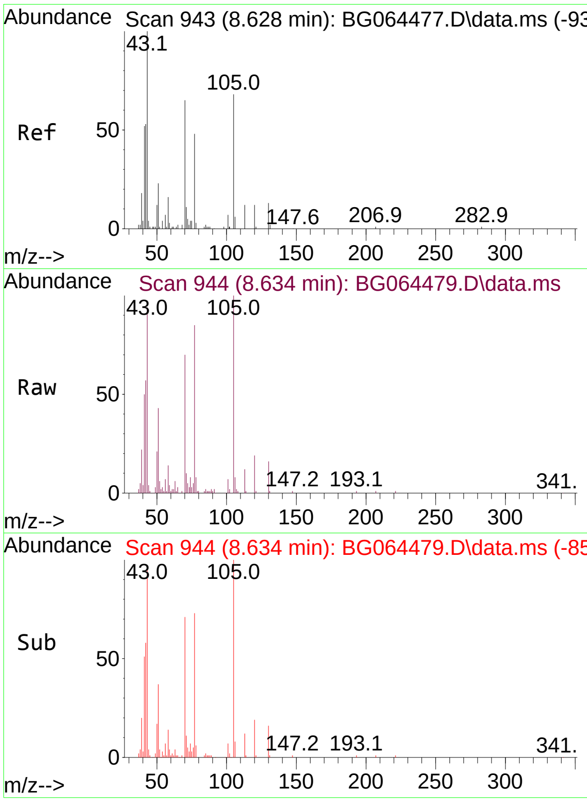




#18
Hexachloroethane
Concen: 59.041 ng
RT: 8.904 min Scan# 990
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:117 Resp: 30824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.7 | 67.4 | 101.0 |
| 201 | 131.7 | 95.9 | 143.9 |






#19
n-Nitroso-di-n-propylamine
Concen: 64.752 ng
RT: 8.634 min Scan# 94
Delta R.T. 0.020 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Tgt Ion: 70 Resp: 57095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 81.7 | 64.9 | 97.3 |
| 101 | 9.8 | 8.7 | 13.1 |
| 130 | 22.5 | 15.8 | 23.8 |

**Manual Integrations**
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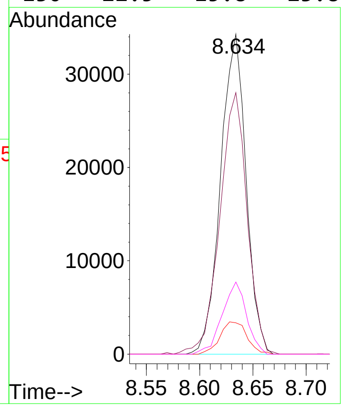
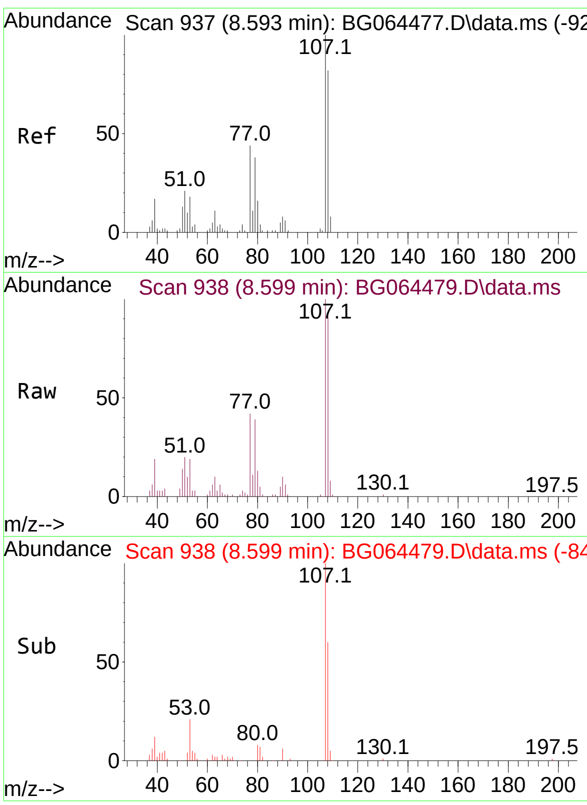
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

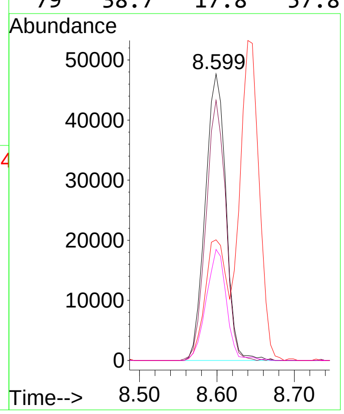


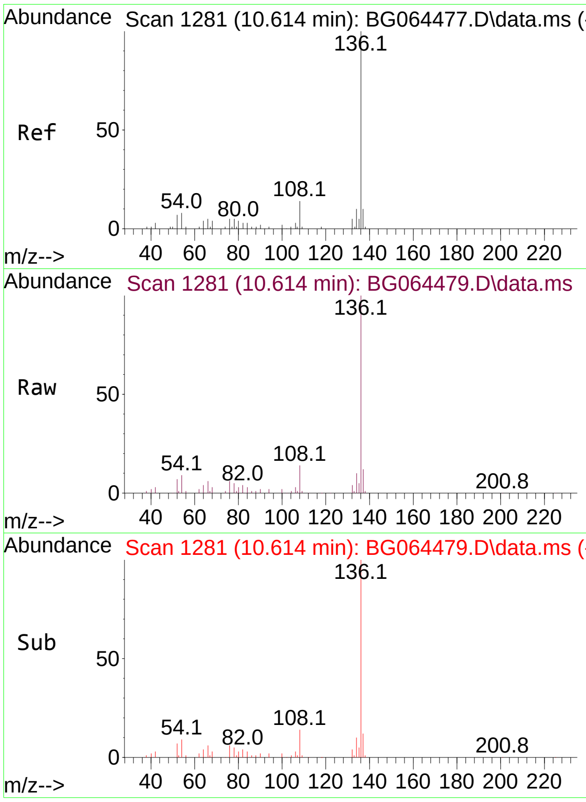

#20
3+4-Methylphenols
Concen: 62.850 ng
RT: 8.599 min Scan# 938
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:107 Resp: 88330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.8 | 62.1 | 102.1 |
| 77 | 42.1 | 23.5 | 63.5 |
| 79 | 38.7 | 17.8 | 57.8 |



ICAL Form




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.614 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Tgt Ion:136 Resp: 7971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 8.3 | 12.5 |
| 54 | 8.6 | 6.2 | 9.4 |
| 68 | 3.1 | 3.0 | 4.4 |

**Manual Integrations**
**APPROVED**

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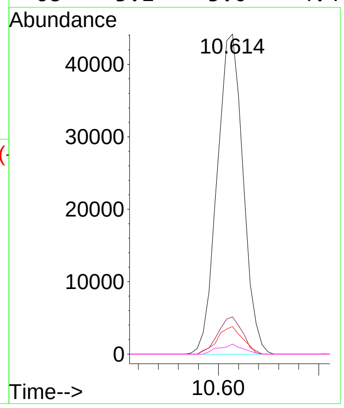
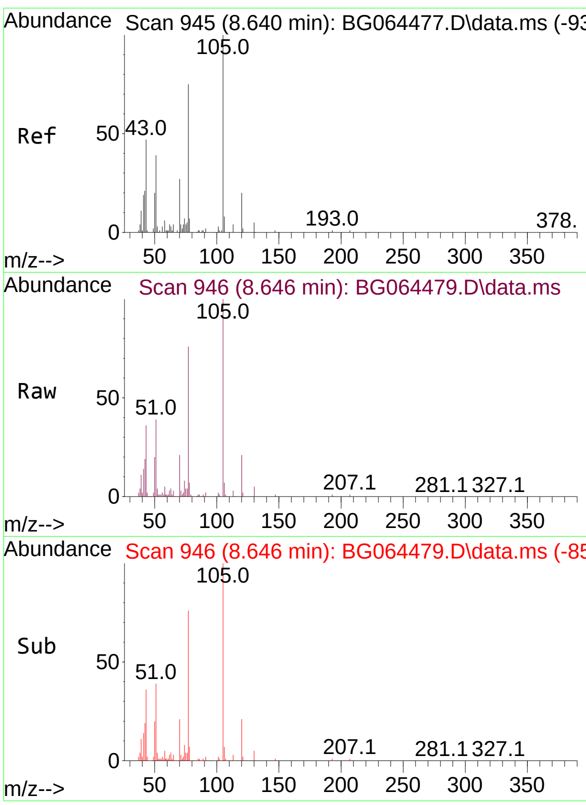
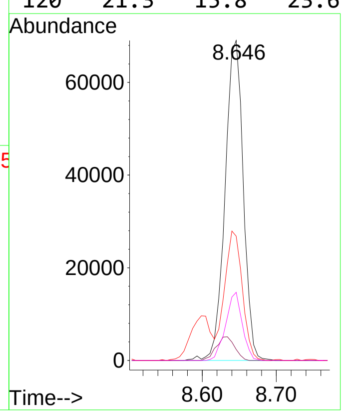


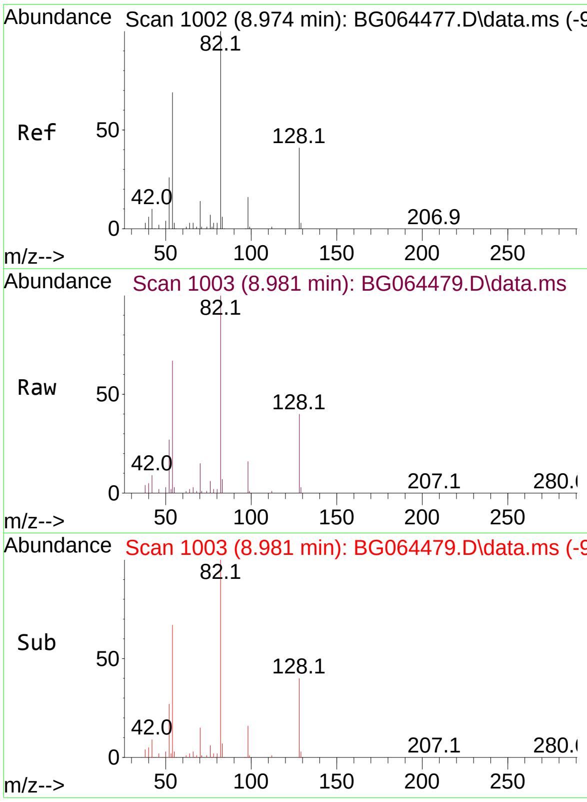

#22
Acetophenone
Concen: 61.322 ng
RT: 8.646 min Scan# 946
Delta R.T. 0.014 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:105 Resp: 118355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 3.5 | 2.8 | 4.2 |
| 51 | 38.8 | 33.0 | 49.4 |
| 120 | 21.3 | 15.8 | 23.6 |



ICAL Form




#23
Nitrobenzene-d5
Concen: 122.779 ng
RT: 8.981 min Scan# 10
Delta R.T. 0.014 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

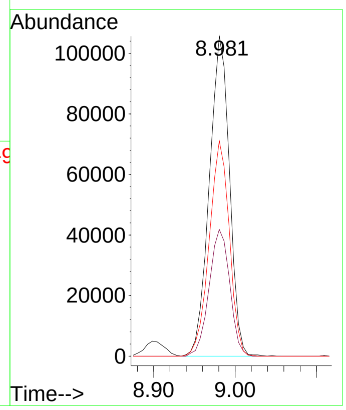
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

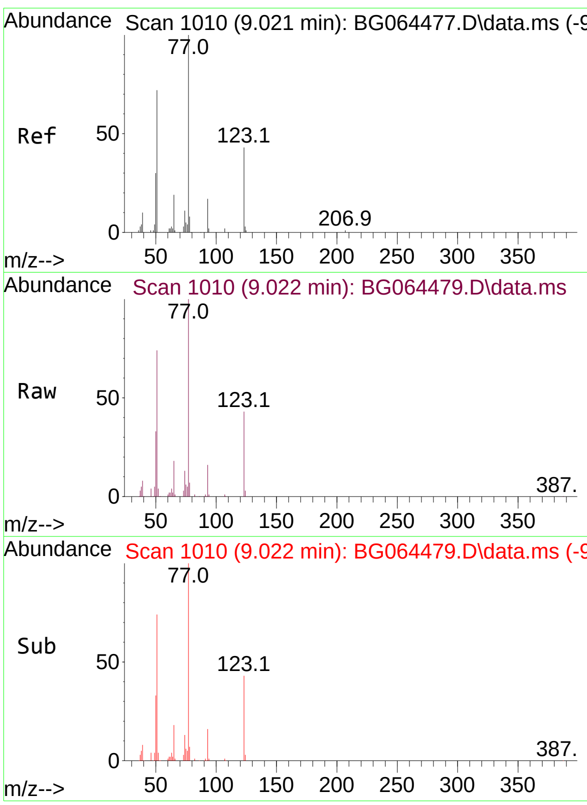
Tgt Ion: 82 Resp: 18201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.6 | 33.1 | 49.7 |
| 54 | 67.3 | 55.4 | 83.2 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

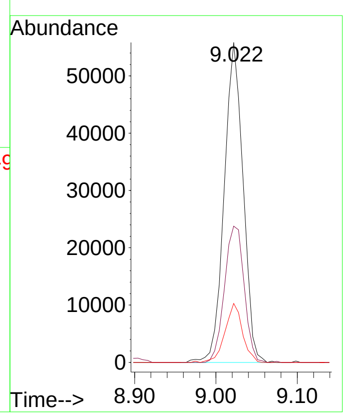



#24
Nitrobenzene
Concen: 60.977 ng
RT: 9.022 min Scan# 1010
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 77 Resp: 90145

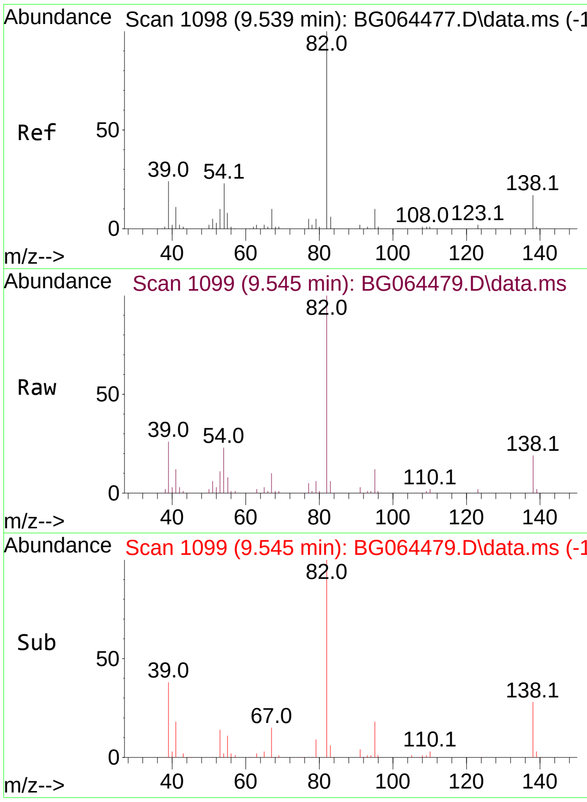
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.6 | 34.4 | 51.6 |
| 65 | 18.4 | 14.8 | 22.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

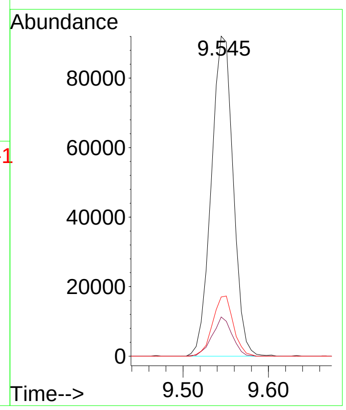
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

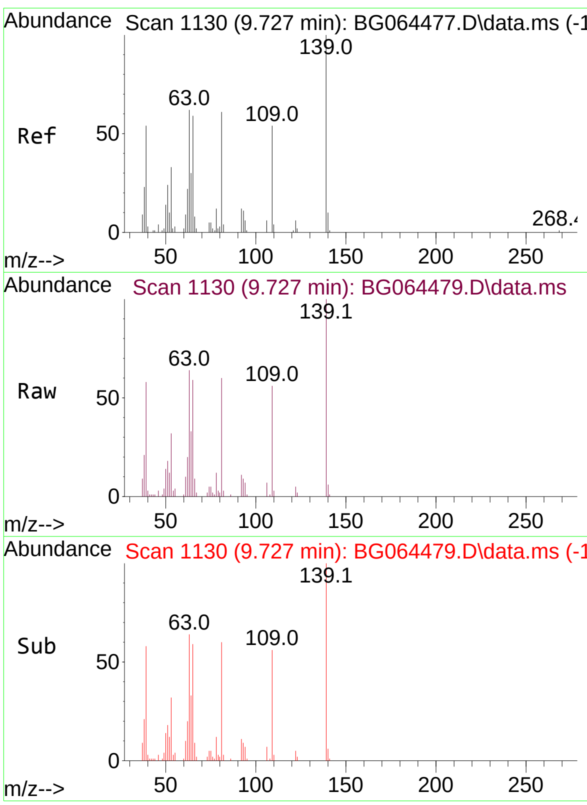



#25
Isophorone
Concen: 61.043 ng
RT: 9.545 min Scan# 10
Delta R.T. 0.014 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 82 Resp: 16394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 12.2 | 7.8 | 11.8# |
| 138 | 18.5 | 13.8 | 20.6 |

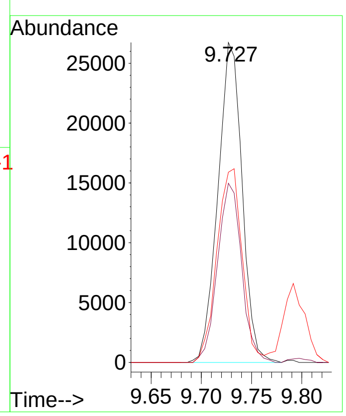


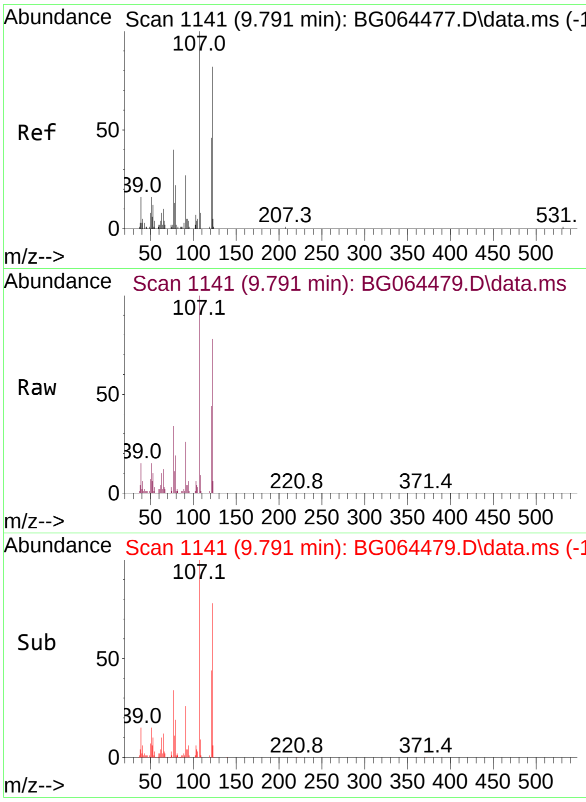




#26
2-Nitrophenol
Concen: 61.140 ng
RT: 9.727 min Scan# 1130
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:139 Resp: 44985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 56.0 | 43.0 | 64.6 |
| 65 | 59.4 | 47.4 | 71.2 |






#27
2,4-Dimethylphenol
Concen:   63.308 ng
RT:   9.791 min   Scan# 11
Delta R.T.   0.009 min
Lab File:   BG064479.D
Acq:  2 Oct 2025   13:35

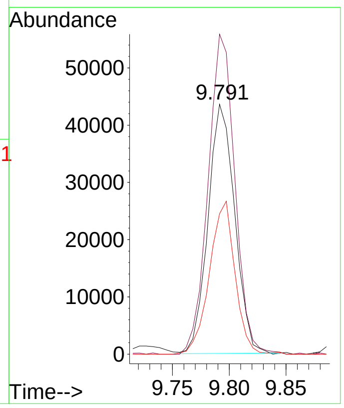
Tgt Ion:122 Resp:   7114

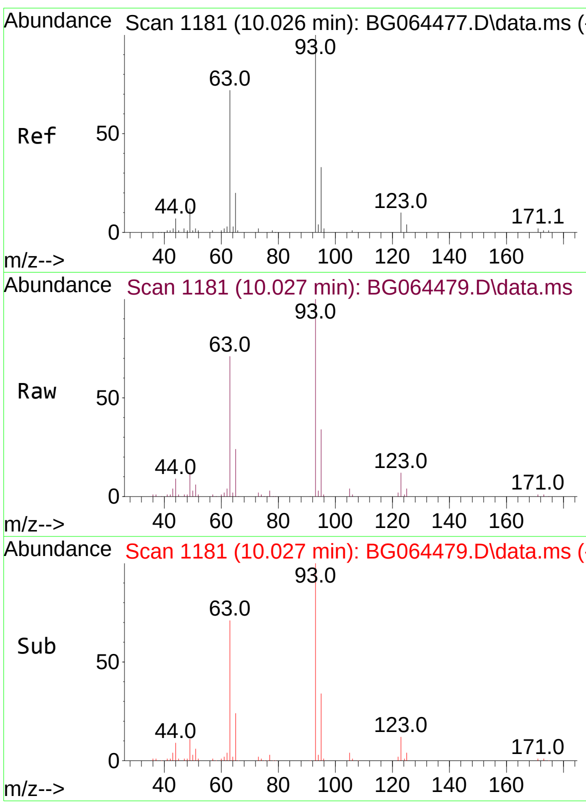
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 128.1 | 98.3 | 147.5 |
| 121 | 56.2 | 44.7 | 67.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

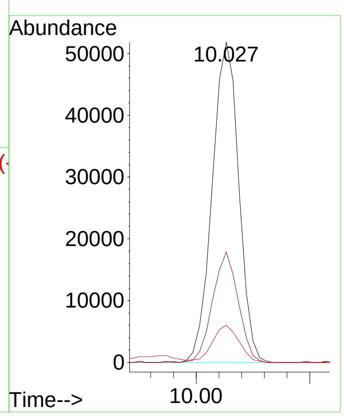


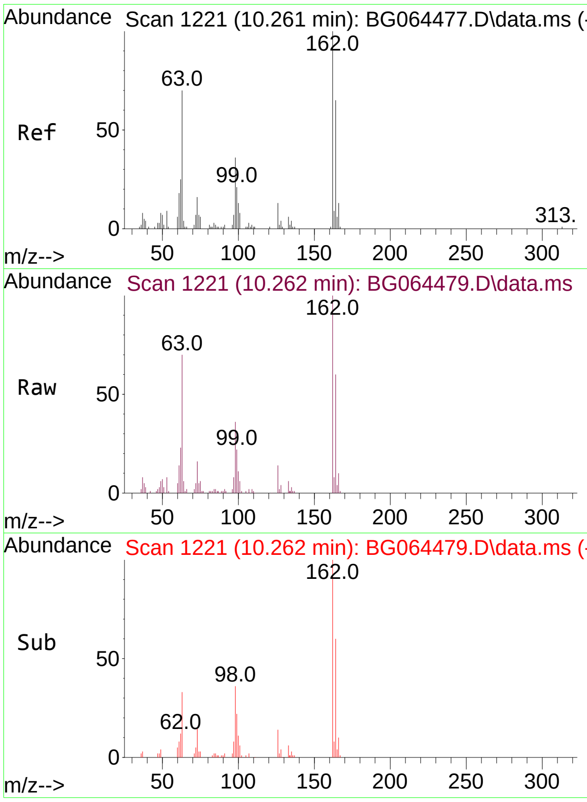




#28
bis(2-Chloroethoxy)methane
Concen:   61.433 ng
RT:  10.027 min   Scan# 1181
Delta R.T.   0.009 min
Lab File:   BG064479.D
Acq:  2 Oct 2025   13:35

Tgt Ion: 93 Resp:   84101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 34.5 | 26.5 | 39.7 |
| 123 | 11.6 | 8.9 | 13.3 |

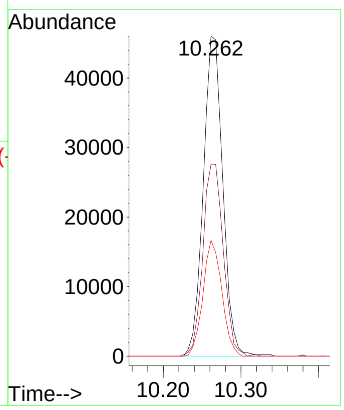





#29
2,4-Dichlorophenol
Concen: 61.860 ng
RT: 10.262 min Scan# 12
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

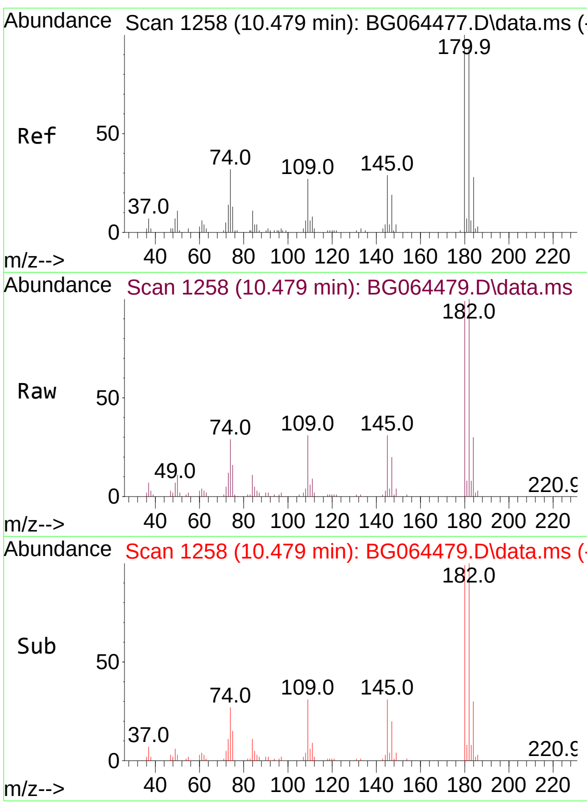
Tgt Ion:162 Resp: 80390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 59.9 | 45.4 | 85.4 |
| 98 | 36.2 | 16.4 | 56.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

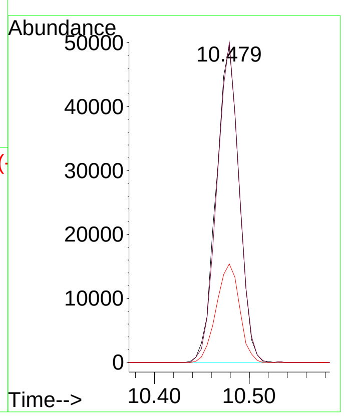
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

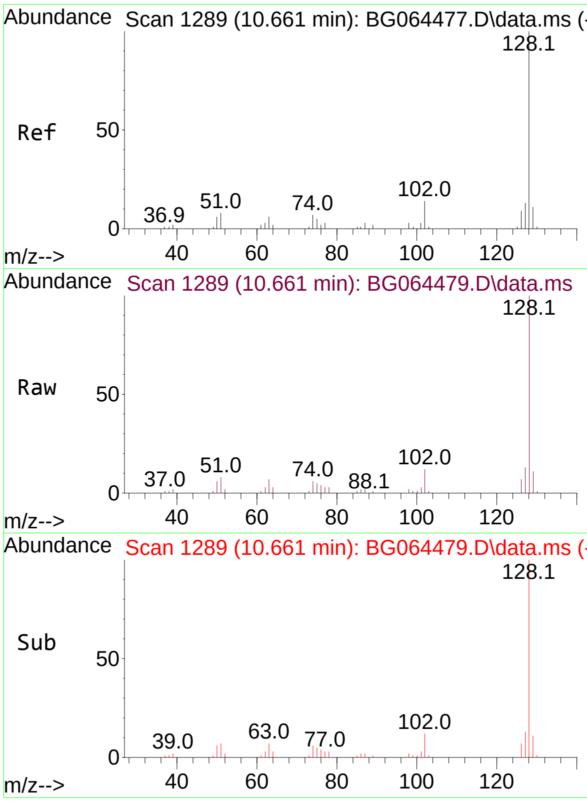



#30
1,2,4-Trichlorobenzene
Concen: 58.922 ng
RT: 10.479 min Scan# 1258
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:180 Resp: 83491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 101.0 | 75.4 | 113.2 |
| 145 | 31.1 | 23.2 | 34.8 |






#31
Naphthalene
Concen: 60.652 ng
RT: 10.661 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Tgt Ion:128 Resp: 24896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.7 | 13.1 |
| 127 | 13.2 | 10.2 | 15.2 |

**Manual Integrations**
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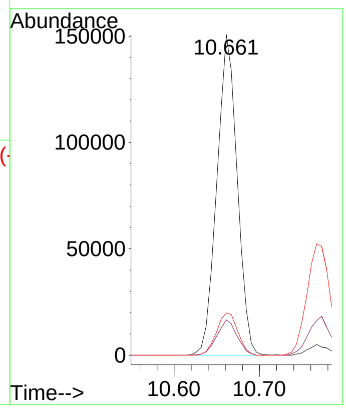
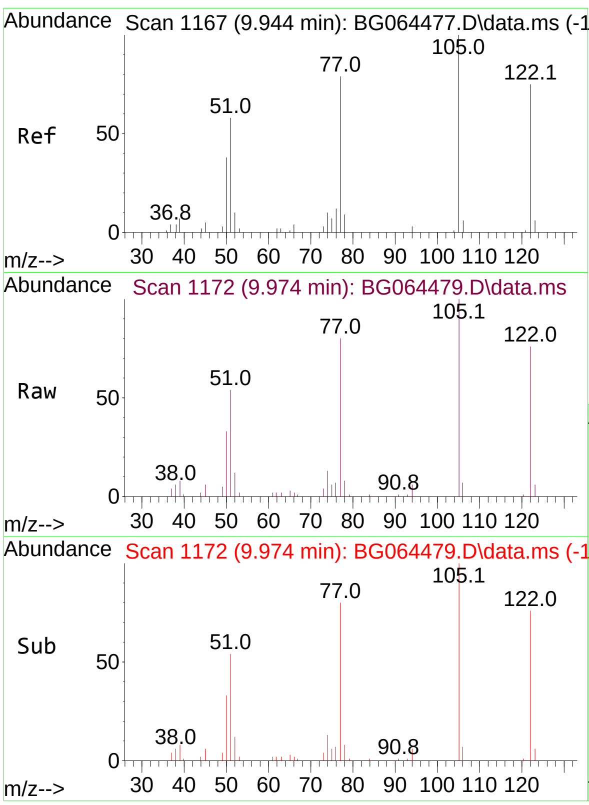
Supervised By :Jagrut Upadhyay 10/03/2025

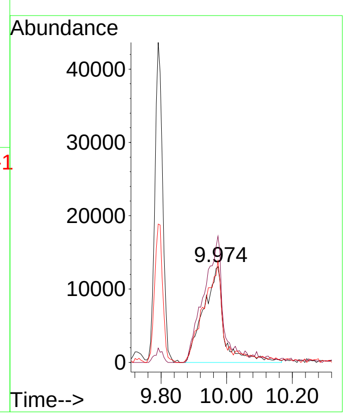



#32
Benzoic acid
Concen: 66.902 ng m
RT: 9.974 min Scan# 1172
Delta R.T. 0.085 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:122 Resp: 57724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 132.1 | 113.9 | 153.9 |
| 77 | 106.1 | 86.1 | 126.1 |



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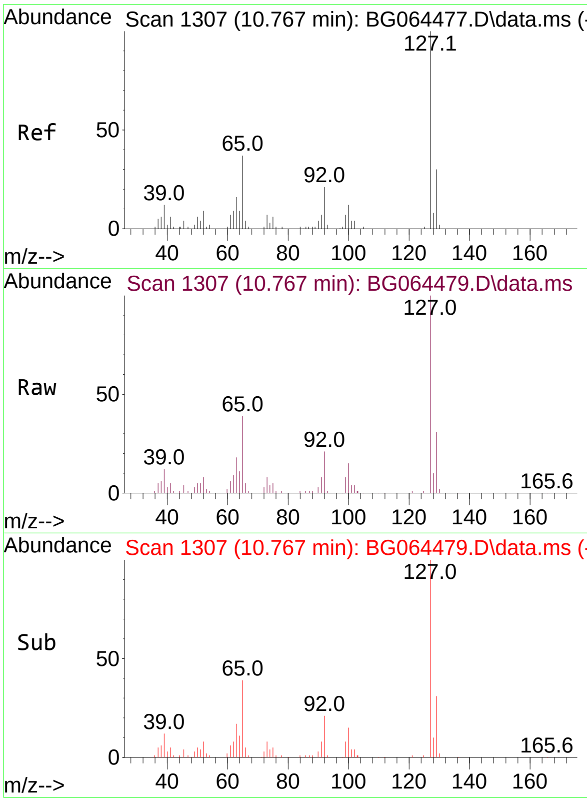
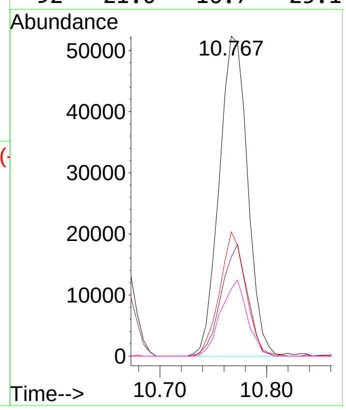



#33
4-Chloroaniline
Concen: 61.625 ng
RT: 10.767 min Scan# 13
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:127 Resp: 9706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.0 | 24.2 | 36.4 |
| 65 | 38.8 | 29.6 | 44.4 |
| 92 | 21.0 | 16.7 | 25.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

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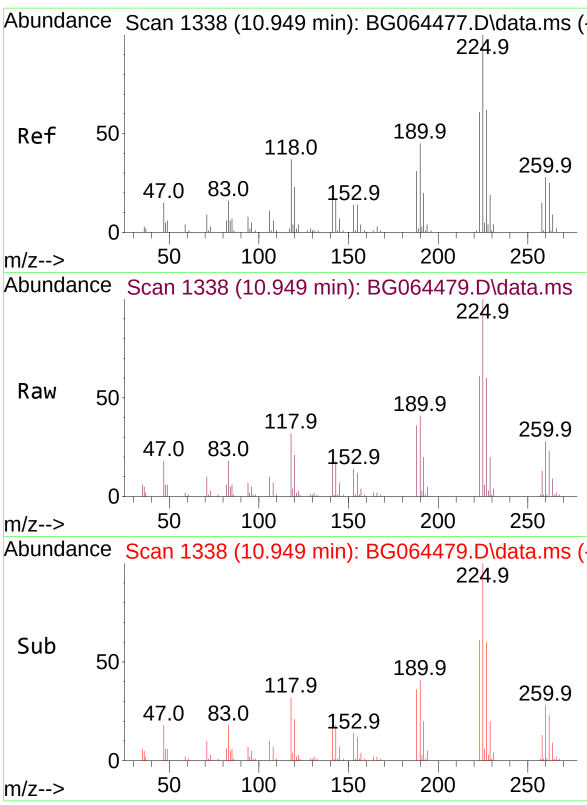
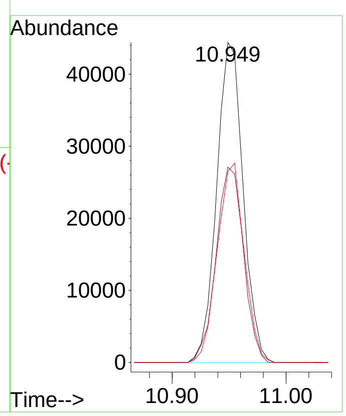
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

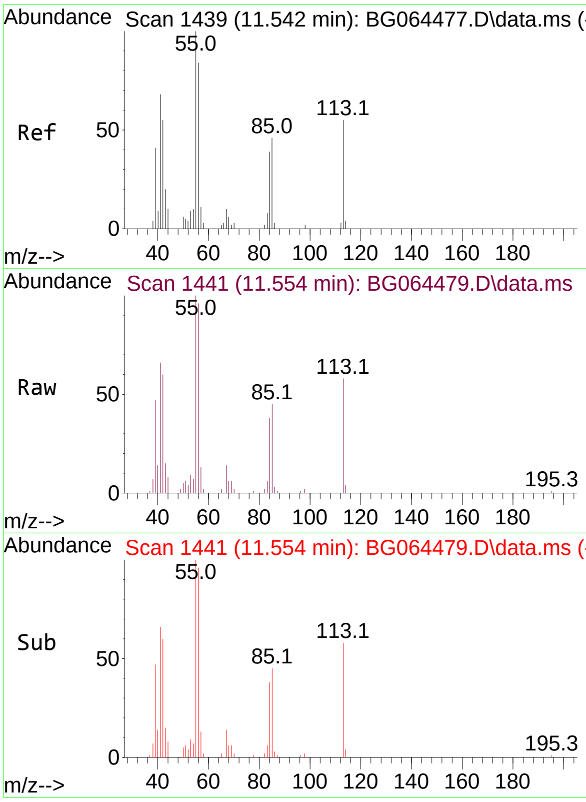



#34
Hexachlorobutadiene
Concen: 59.141 ng
RT: 10.949 min Scan# 1338
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:225 Resp: 71767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.0 | 49.0 | 73.6 |
| 227 | 59.7 | 49.9 | 74.9 |






#35
Caprolactam
Concen:   59.294 ng
RT:  11.554 min  Scan# 14
Delta R.T.  0.044 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

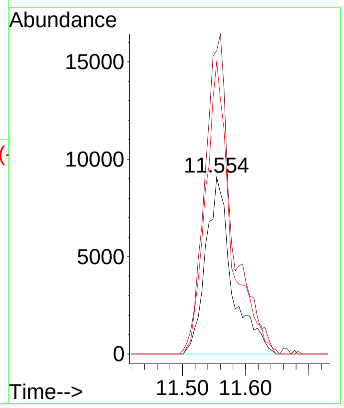
Tgt Ion:113 Resp:   2637

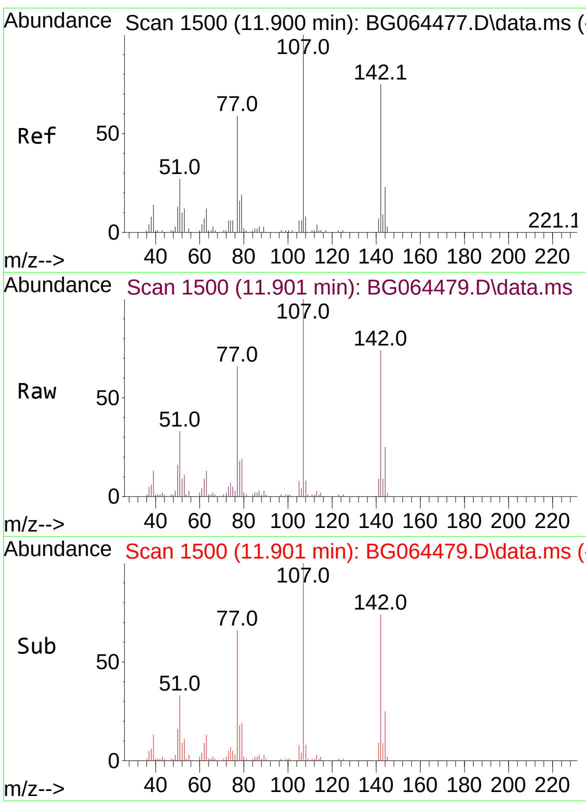
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 171.8 | 162.0 | 202.0 |
| 56 | 165.2 | 134.6 | 174.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli     10/03/2025
Supervised By :Jagrut Upadhyay     10/03/2025

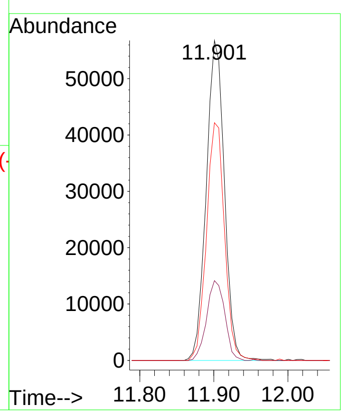


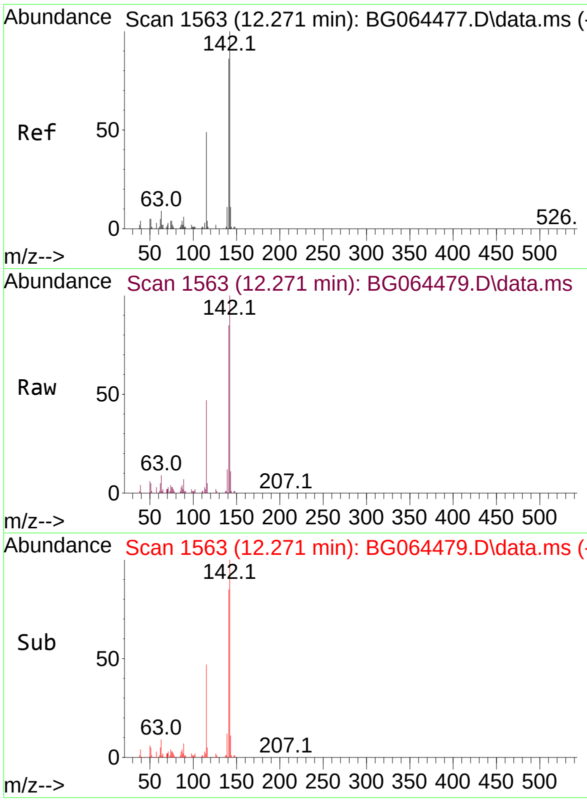




#36
4-Chloro-3-methylphenol
Concen:   61.261 ng
RT:  11.901 min  Scan# 1500
Delta R.T.  0.009 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:107 Resp:   96815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.9 | 18.7 | 28.1 |
| 142 | 74.3 | 60.2 | 90.2 |






#37
2-Methylnaphthalene
Concen: 60.616 ng
RT: 12.271 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

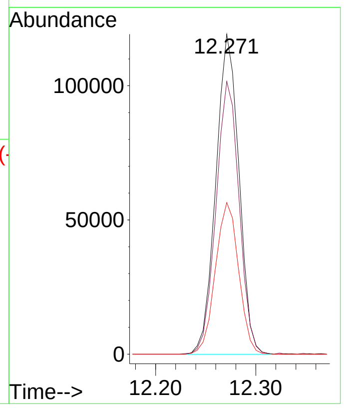
Tgt Ion:142 Resp: 19099

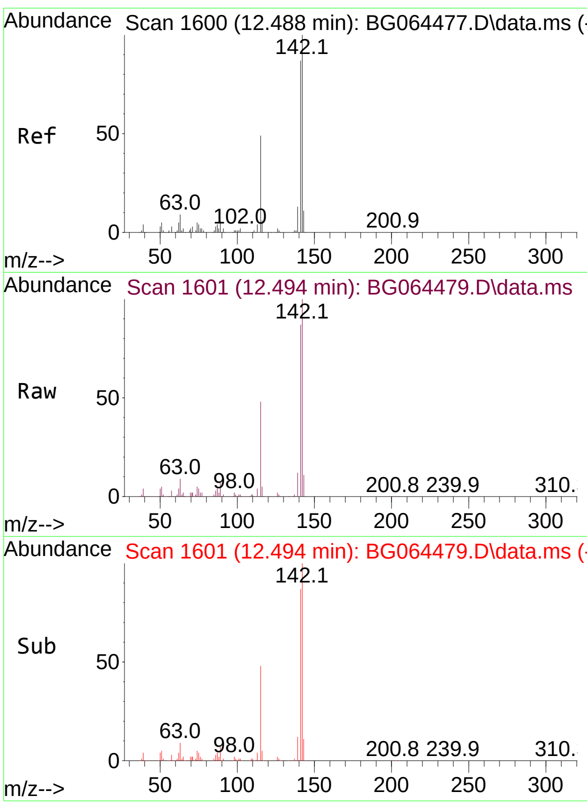
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.2 | 68.7 | 103.1 |
| 115 | 47.4 | 39.3 | 58.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

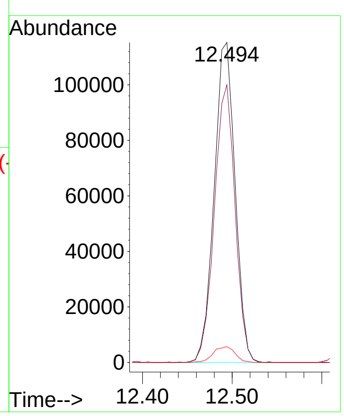


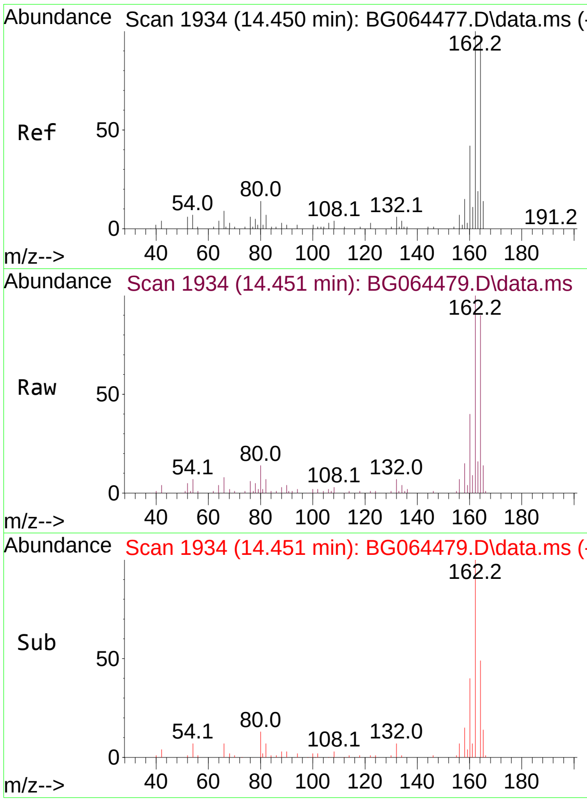




#38
1-Methylnaphthalene
Concen: 59.679 ng
RT: 12.494 min Scan# 1601
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:142 Resp: 187504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.8 | 69.8 | 104.8 |
| 116 | 4.9 | 4.6 | 6.8 |

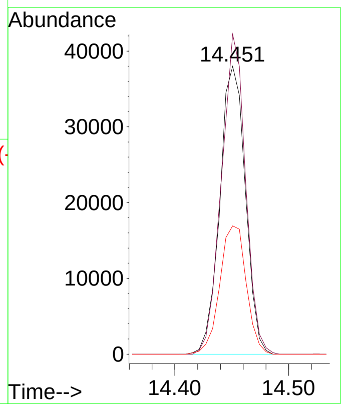




#39
Acenaphthene-d10
Concen:   20.000 ng
RT:  14.451 min  Scan# 19
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:164 Resp:   59222

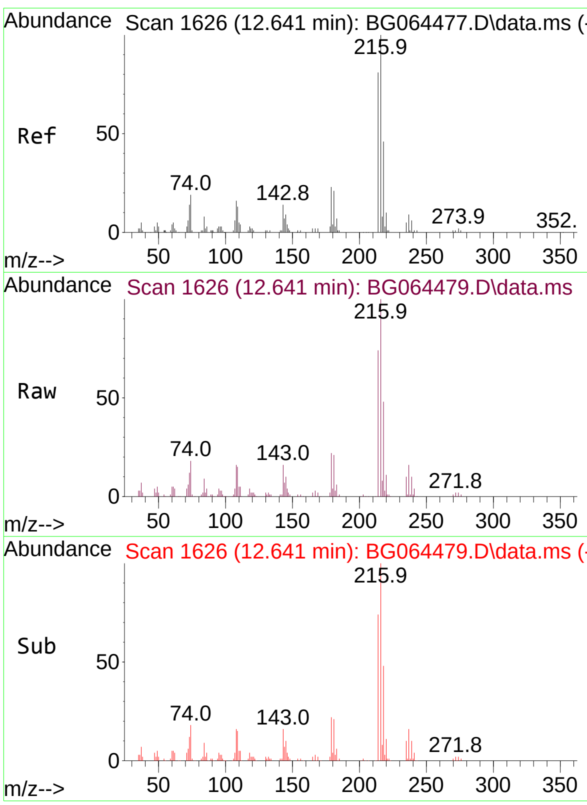
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 111.2 | 82.2 | 123.2 |
| 160 | 44.6 | 34.3 | 51.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

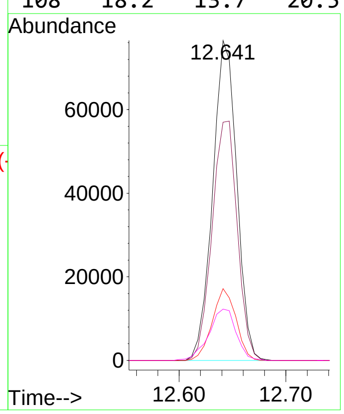
Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025



#40
1,2,4,5-Tetrachlorobenzene
Concen:   63.034 ng
RT:  12.641 min  Scan# 1626
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:216 Resp:  120531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.0 | 62.5 | 93.7 |
| 179 | 22.0 | 17.0 | 25.6 |
| 108 | 18.2 | 13.7 | 20.5 |



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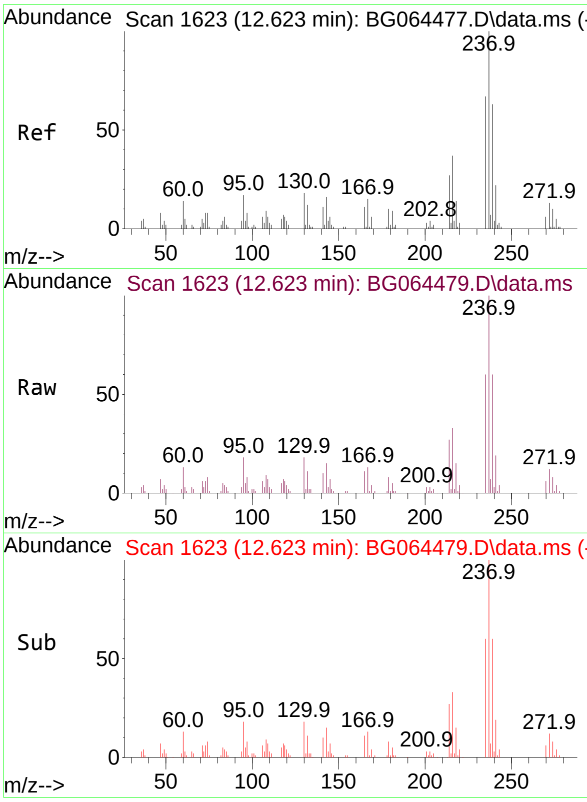


#41
Hexachlorocyclopentadiene
Concen: 67.119 ng
RT: 12.623 min Scan# 16
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Tgt Ion:237 Resp: 67135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 59.7 | 46.9 | 86.9 |
| 272 | 12.2 | 0.0 | 32.6 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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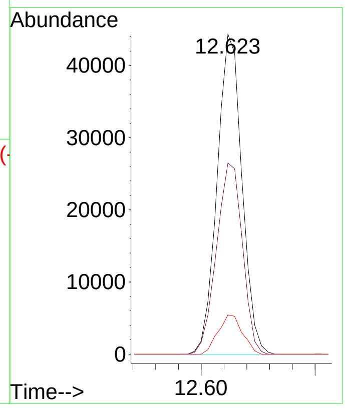
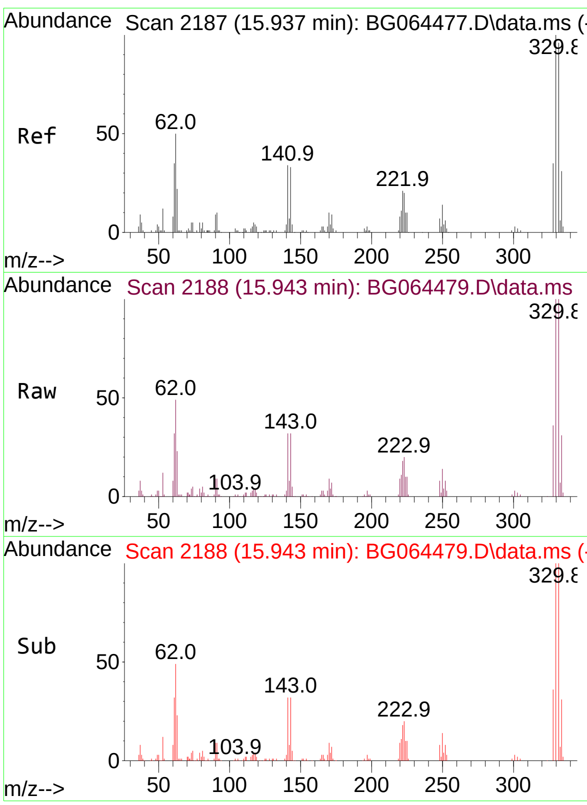
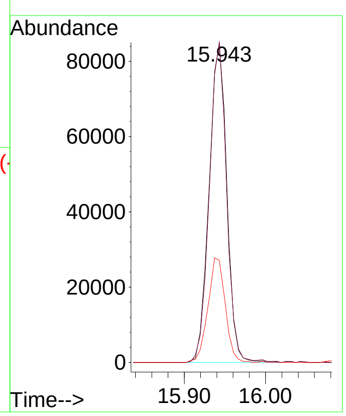


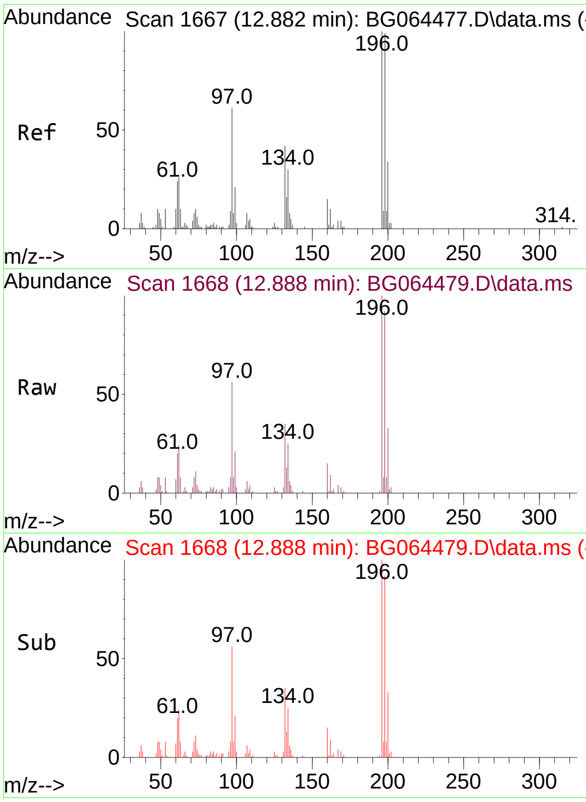




#42
2,4,6-Tribromophenol
Concen: 119.659 ng
RT: 15.943 min Scan# 2188
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:330 Resp: 128452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.6 | 77.4 | 116.0 |
| 141 | 32.1 | 25.8 | 38.6 |






#43
2,4,6-Trichlorophenol
Concen: 63.395 ng
RT: 12.888 min Scan# 16
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

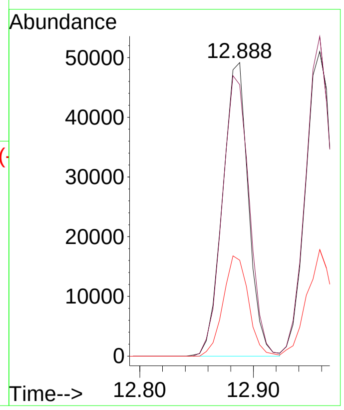
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

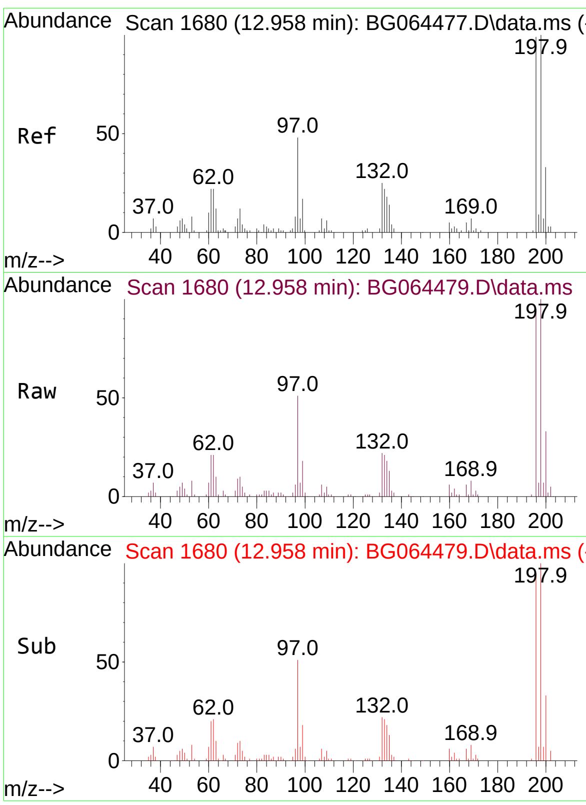
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:196 Resp: 7749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 92.4 | 79.3 | 118.9 |
| 200 | 32.7 | 27.4 | 41.2 |

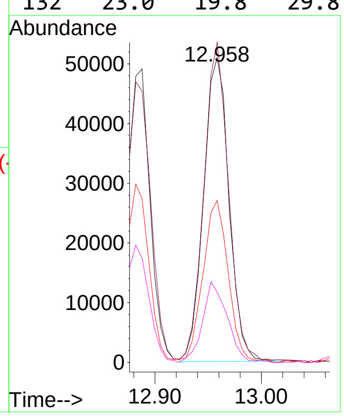



#44
2,4,5-Trichlorophenol
Concen: 61.556 ng
RT: 12.958 min Scan# 1680
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:196 Resp: 84004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 105.0 | 80.3 | 120.5 |
| 97 | 53.1 | 39.4 | 59.0 |
| 132 | 23.0 | 19.8 | 29.8 |



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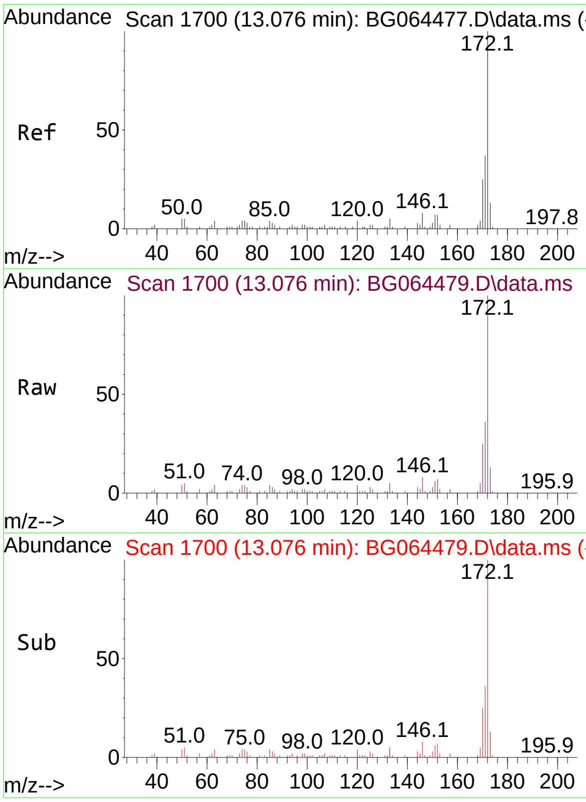


#45
2-Fluorobiphenyl
Concen: 122.847 ng
RT: 13.076 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Tgt Ion:172 Resp: 49357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.6 | 44.4 |
| 170 | 25.1 | 20.2 | 30.2 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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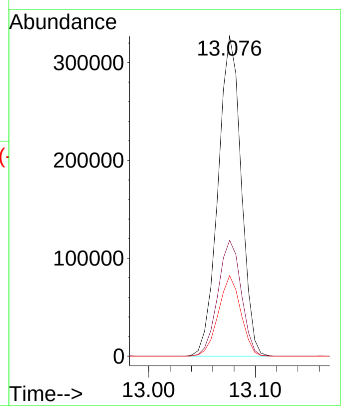
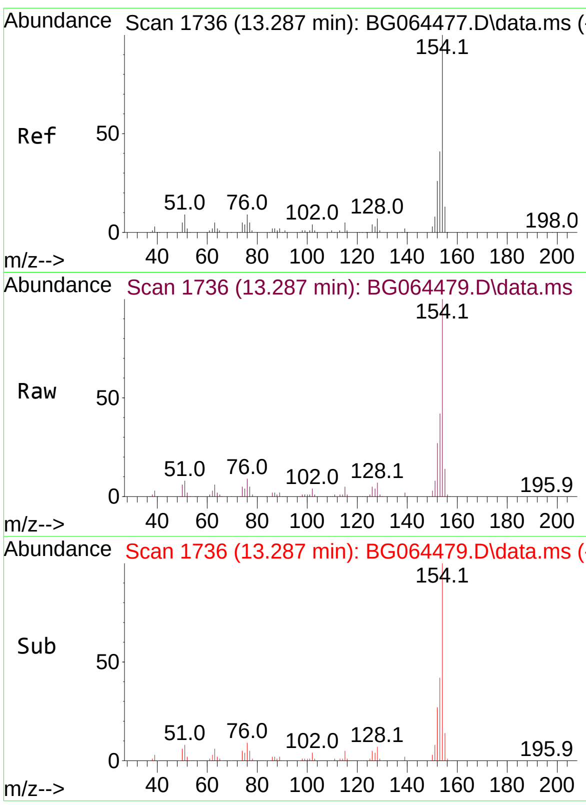
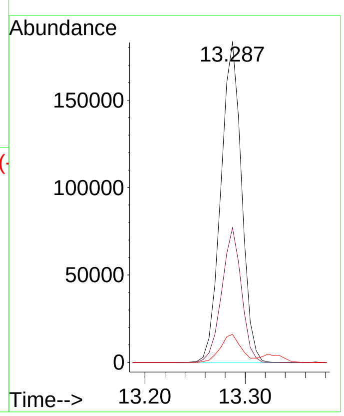


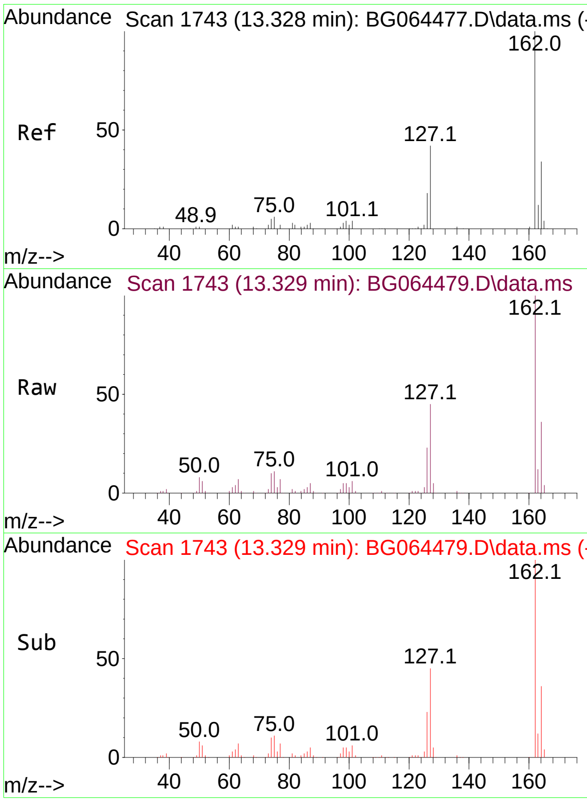




#46
1,1'-Biphenyl
Concen: 61.885 ng
RT: 13.287 min Scan# 1736
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:154 Resp: 263596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 42.1 | 20.7 | 60.7 |
| 76 | 8.8 | 0.0 | 29.3 |

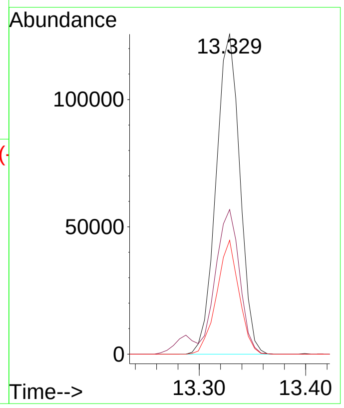





#47
2-Chloronaphthalene
Concen: 61.791 ng
RT: 13.329 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:162 Resp: 19650

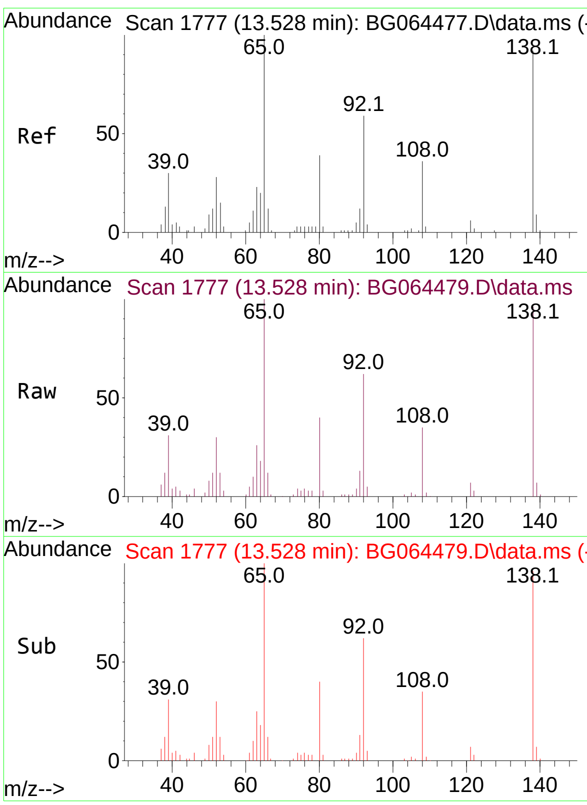
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 45.2 | 35.8 | 53.8 |
| 164 | 35.6 | 27.2 | 40.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

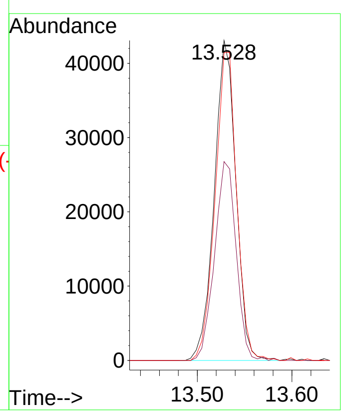
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

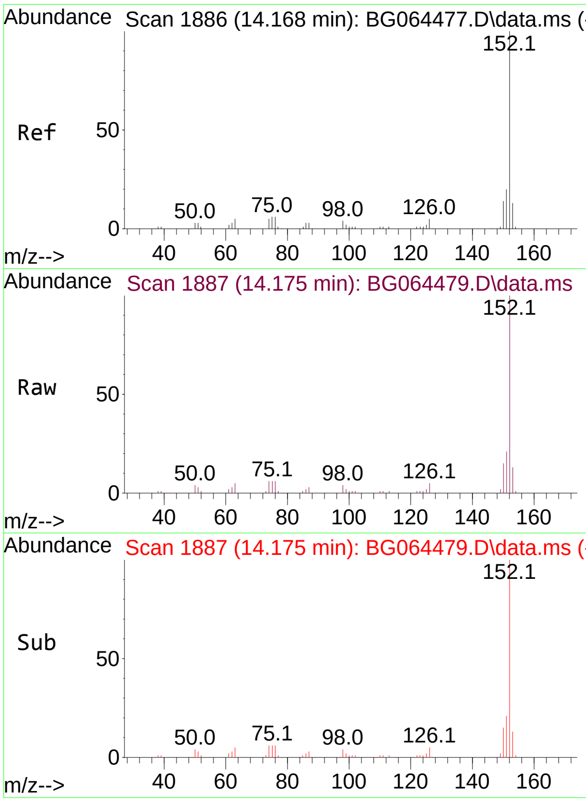



#48
2-Nitroaniline
Concen: 63.078 ng
RT: 13.528 min Scan# 1777
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion: 65 Resp: 68465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 62.1 | 47.0 | 70.6 |
| 138 | 96.1 | 73.5 | 110.3 |





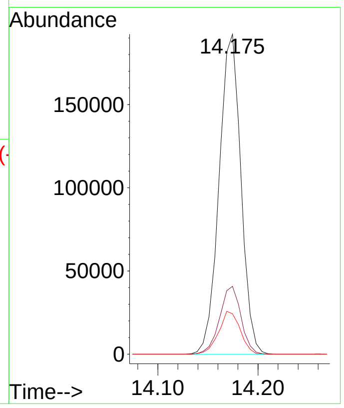

#49
Acenaphthylene
Concen: 61.645 ng
RT: 14.175 min Scan# 18
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

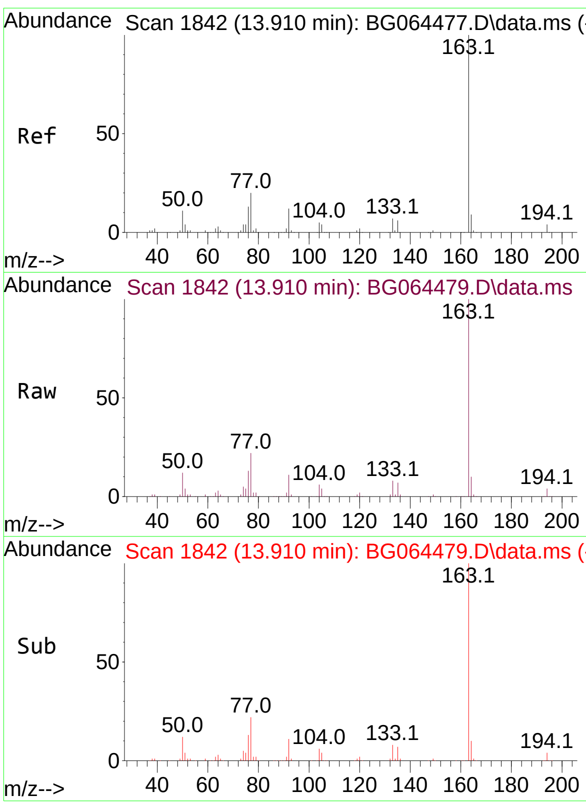
Tgt Ion:152 Resp: 291016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 15.8 | 23.6 |
| 153 | 12.6 | 10.6 | 15.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

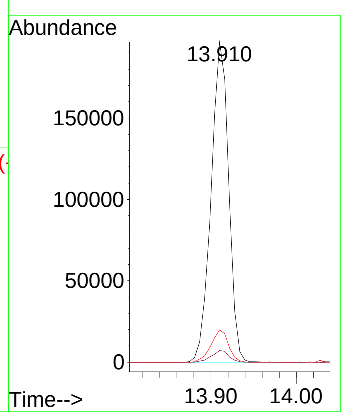


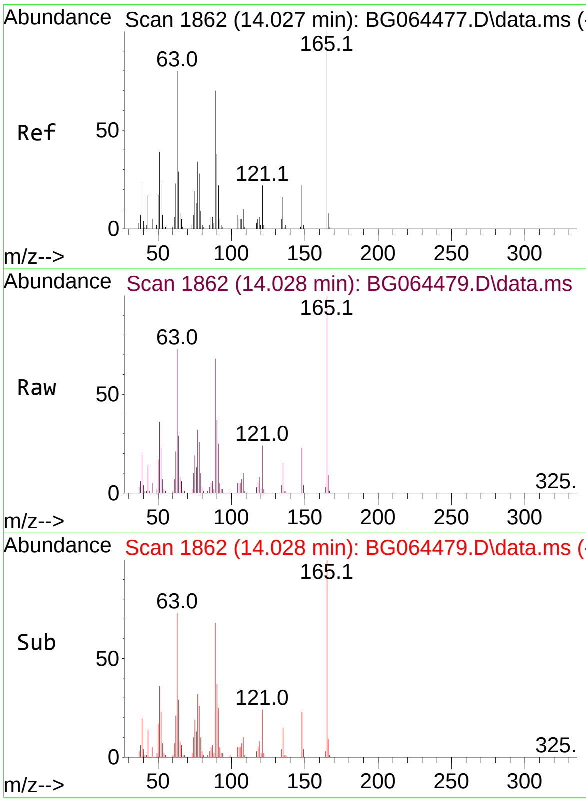

#50
Dimethylphthalate
Concen: 60.755 ng
RT: 13.910 min Scan# 1842
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:163 Resp: 281798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.7 | 2.9 | 4.3 |
| 164 | 10.1 | 7.4 | 11.0 |



ICAL Form




#51
2,6-Dinitrotoluene
Concen:   63.363 ng
RT:  14.028 min   Scan# 18
Delta R.T.   0.009 min
Lab File:    BG064479.D
Acq:  2 Oct 2025   13:35

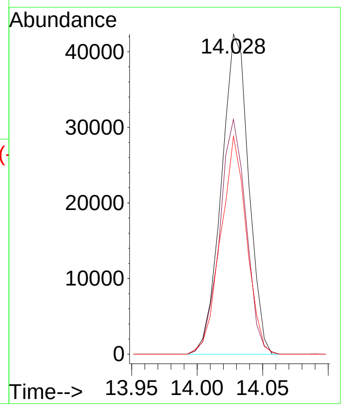
Tgt Ion:165 Resp:   61222

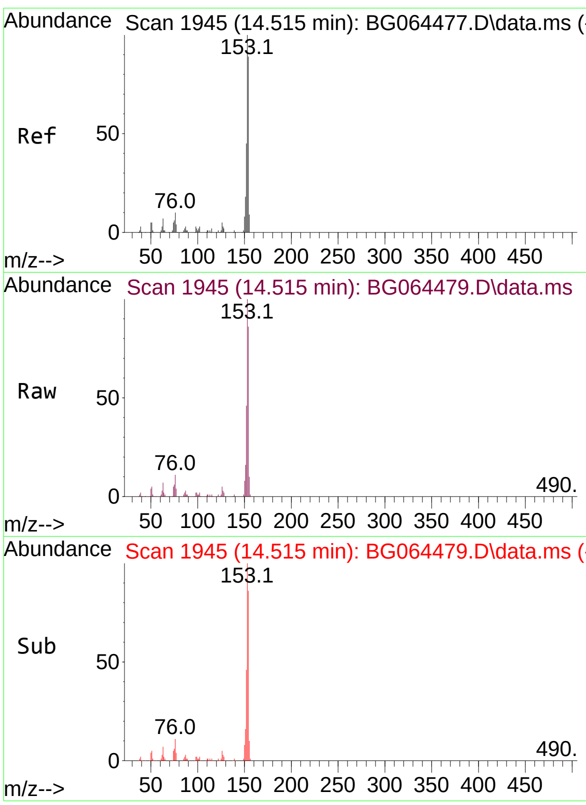
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 73.4 | 63.9 | 95.9 |
| 89 | 68.1 | 56.1 | 84.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

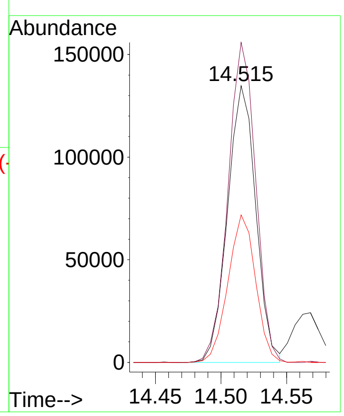


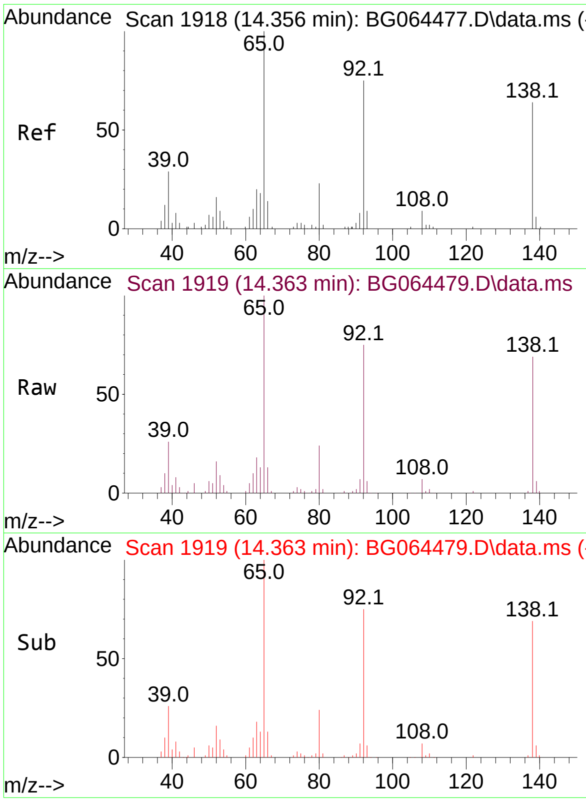

#52
Acenaphthene
Concen:   61.643 ng
RT:  14.515 min   Scan# 1945
Delta R.T.   0.003 min
Lab File:    BG064479.D
Acq:  2 Oct 2025   13:35

Tgt Ion:154 Resp:   202179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.7 | 90.2 | 135.4 |
| 152 | 53.3 | 40.2 | 60.4 |



ICAL Form



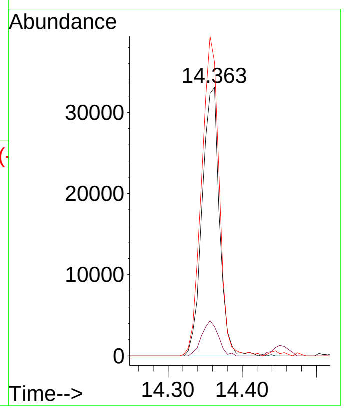

#53
3-Nitroaniline
Concen:   60.440 ng
RT:  14.363 min   Scan# 19
Delta R.T.   0.014 min
Lab File:    BG064479.D
Acq:  2 Oct 2025   13:35

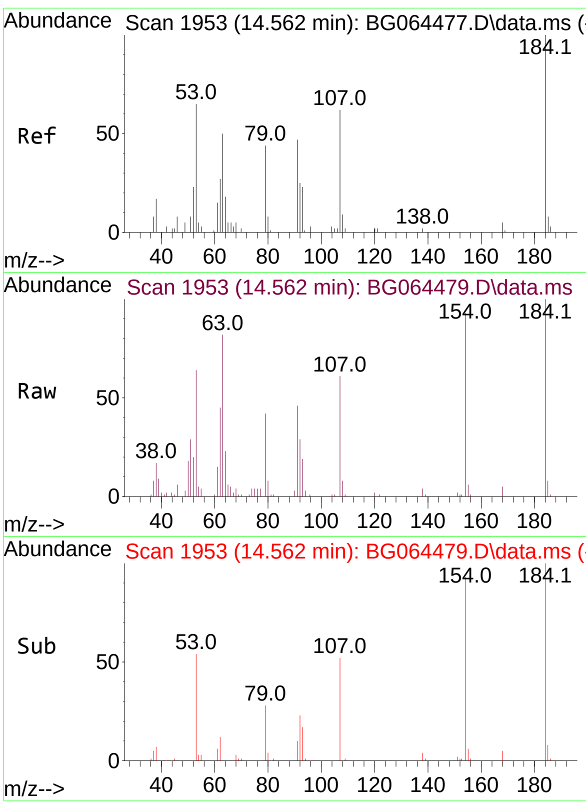
Tgt Ion:138 Resp:    5385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 10.9 | 10.6 | 15.8 |
| 92 | 109.4 | 93.2 | 139.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli     10/03/2025
Supervised By :Jagrut Upadhyay     10/03/2025

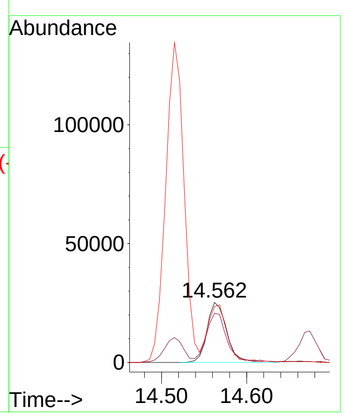


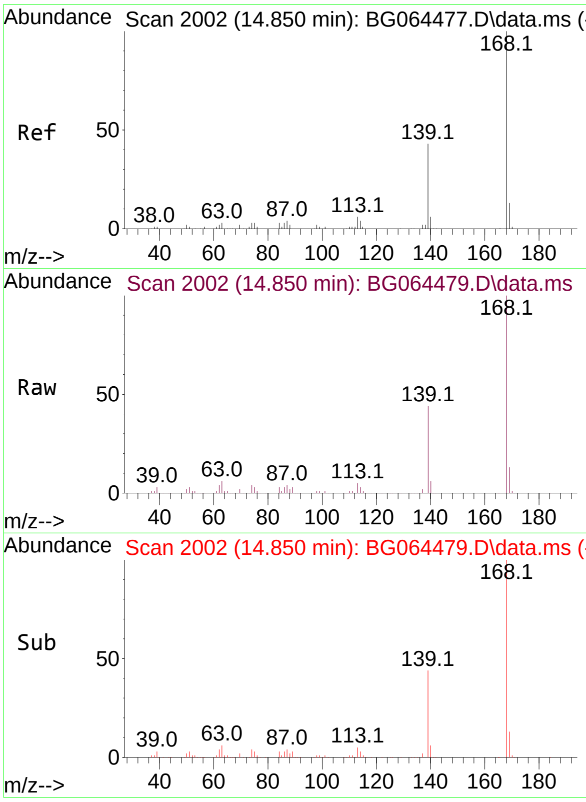




#54
2,4-Dinitrophenol
Concen:   58.053 ng
RT:  14.562 min   Scan# 1953
Delta R.T.   -0.003 min
Lab File:    BG064479.D
Acq:  2 Oct 2025   13:35

Tgt Ion:184 Resp:    40673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 82.0 | 69.0 | 103.4 |
| 154 | 93.0 | 95.6 | 143.4# |






#55
Dibenzofuran
Concen: 61.429 ng
RT: 14.850 min Scan# 20
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

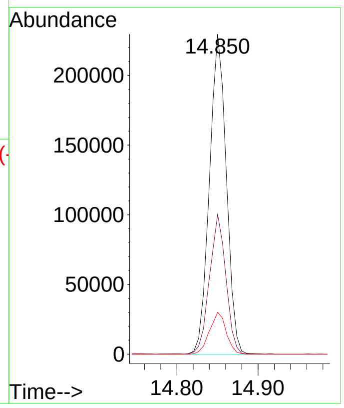
Tgt Ion:168 Resp: 33266

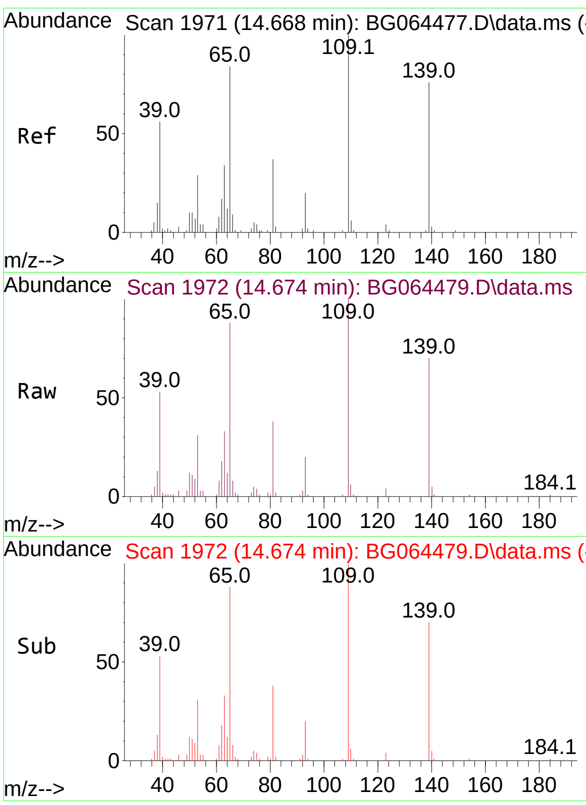
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 43.7 | 34.0 | 51.0 |
| 169 | 13.1 | 10.2 | 15.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

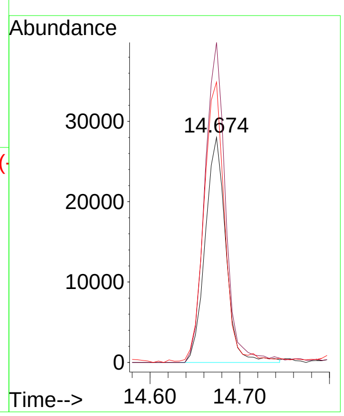


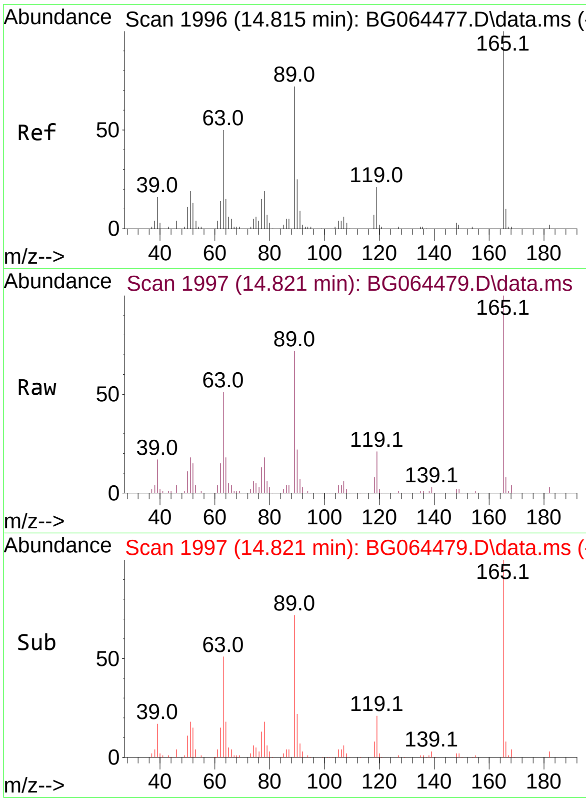

#56
4-Nitrophenol
Concen: 64.107 ng
RT: 14.674 min Scan# 1972
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:139 Resp: 44975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 142.2 | 111.8 | 151.8 |
| 65 | 124.7 | 91.1 | 131.1 |



ICAL Form




#57
2,4-Dinitrotoluene
Concen: 60.873 ng
RT: 14.821 min Scan# 19
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

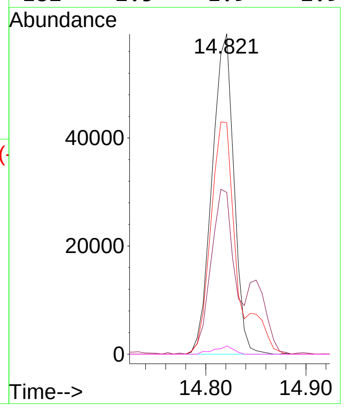
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

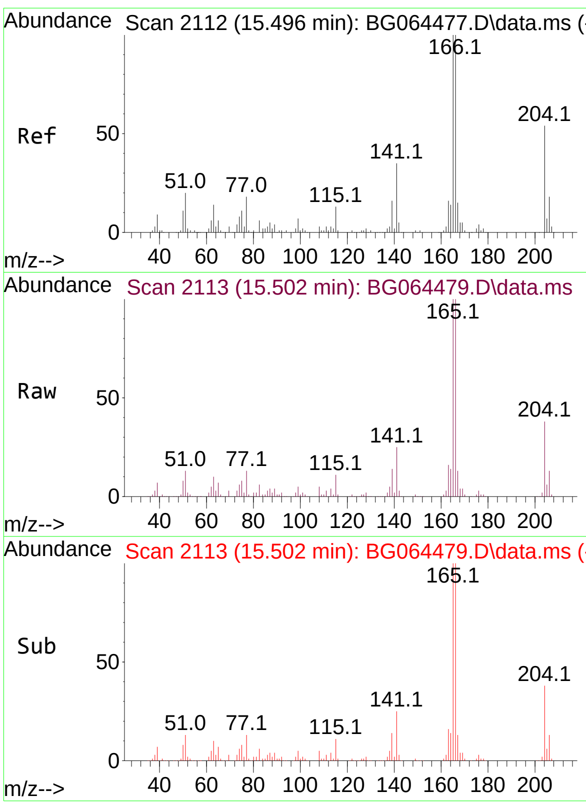
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:165 Resp: 8991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 50.5 | 40.4 | 60.6 |
| 89 | 72.3 | 57.3 | 85.9 |
| 182 | 2.5 | 1.9 | 2.9 |

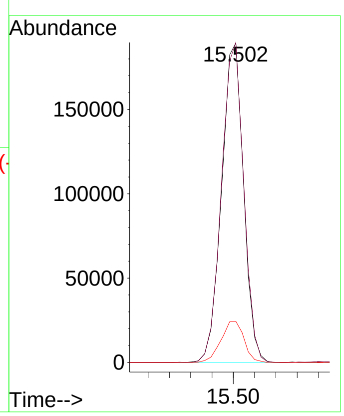



#58
Fluorene
Concen: 60.439 ng
RT: 15.502 min Scan# 2113
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:166 Resp: 272106

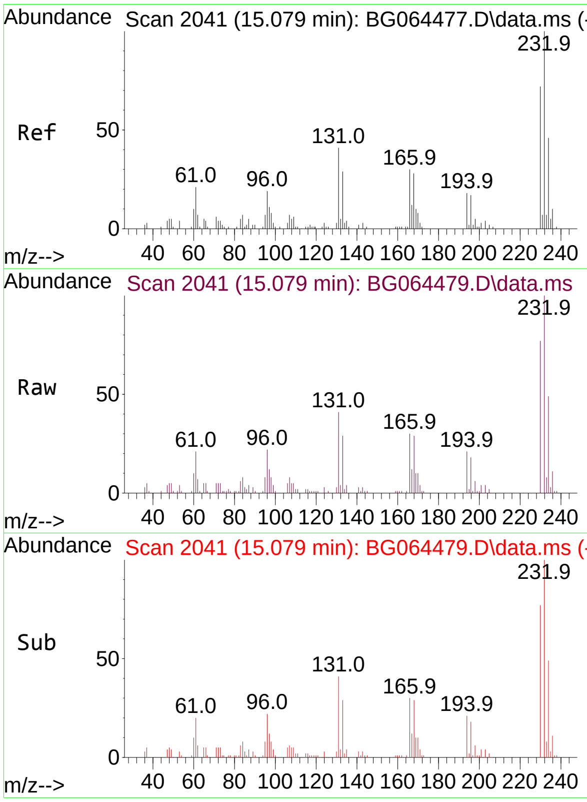
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.2 | 79.8 | 119.6 |
| 167 | 12.8 | 11.7 | 17.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

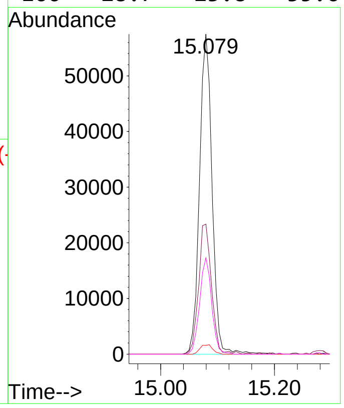
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

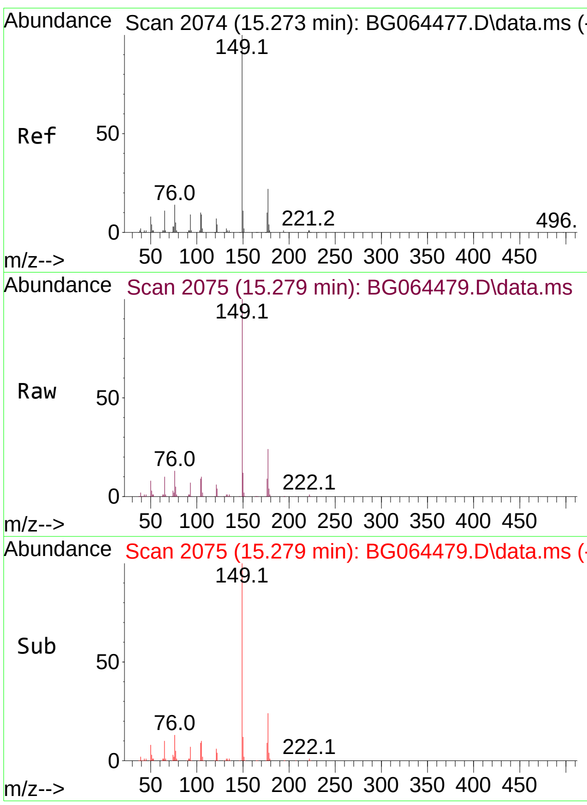



#59
2,3,4,6-Tetrachlorophenol
Concen: 62.984 ng
RT: 15.079 min Scan# 20
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:232 Resp: 8772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 41.8 | 35.0 | 52.4 |
| 130 | 3.0 | 2.0 | 3.0 |
| 166 | 28.7 | 23.8 | 35.6 |

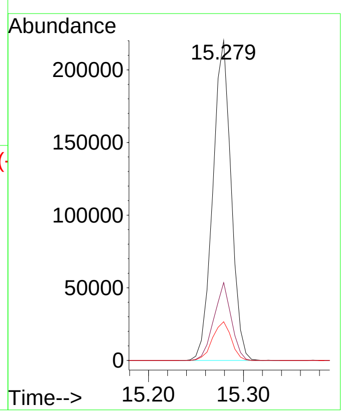


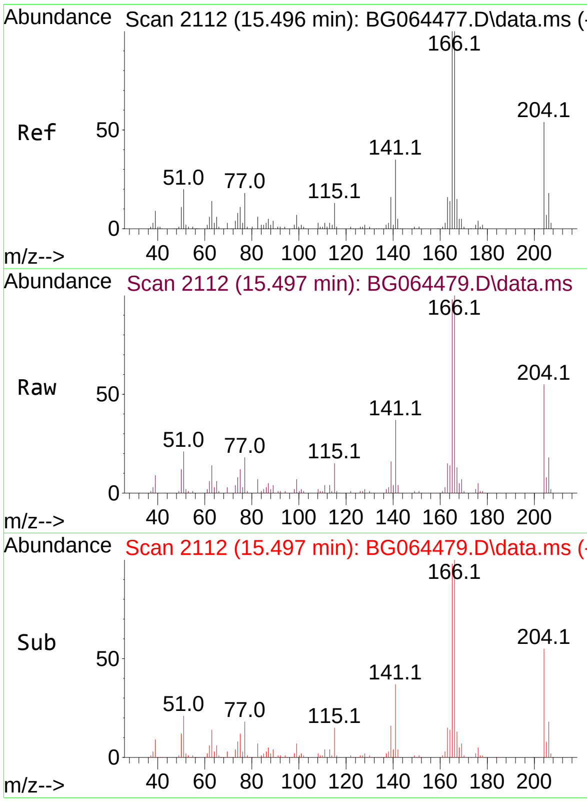

#60
Diethylphthalate
Concen: 59.367 ng
RT: 15.279 min Scan# 2075
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:149 Resp: 295396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 24.3 | 17.4 | 26.0 |
| 150 | 12.1 | 9.1 | 13.7 |



ICAL Form



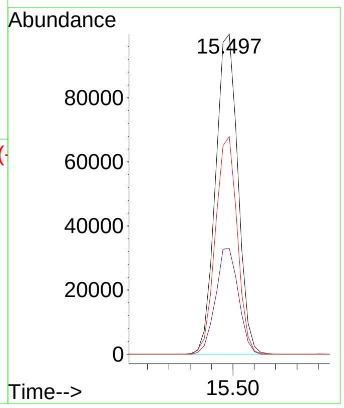

#61
4-Chlorophenyl-phenylether
Concen: 59.213 ng
RT: 15.497 min Scan# 21
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

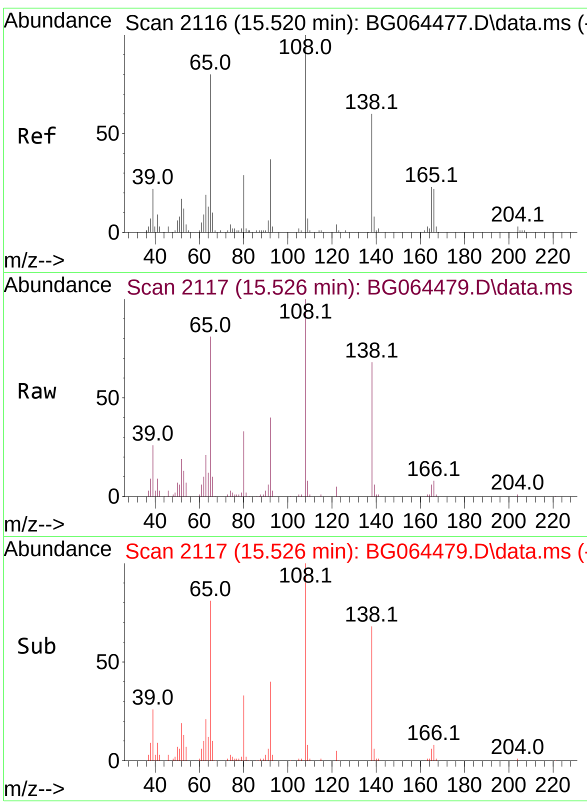
Tgt Ion:204 Resp: 145541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.0 | 27.1 | 40.7 |
| 141 | 68.0 | 51.5 | 77.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

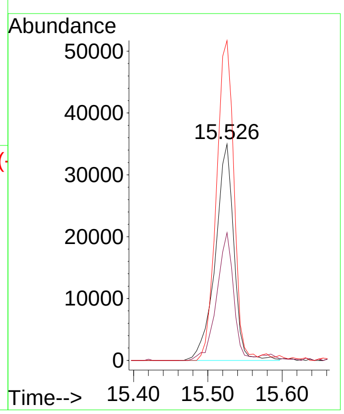


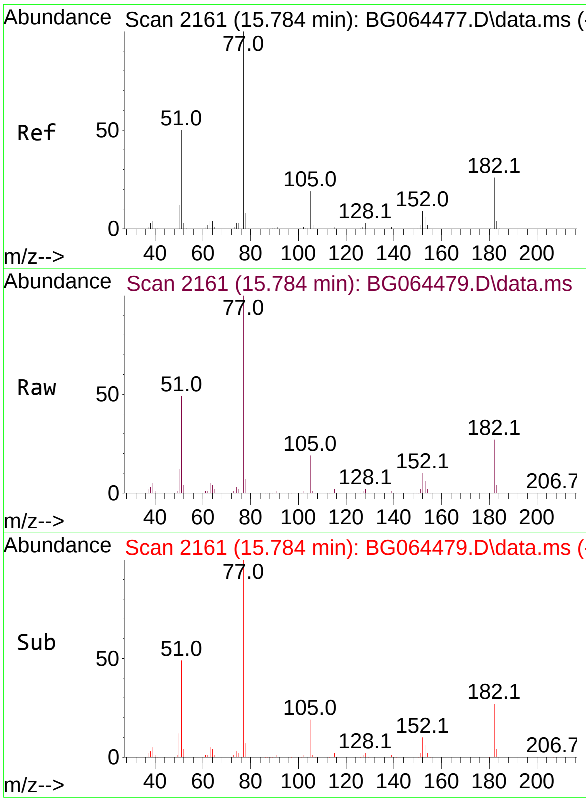

#62
4-Nitroaniline
Concen: 65.117 ng
RT: 15.526 min Scan# 2117
Delta R.T. 0.014 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:138 Resp: 60477

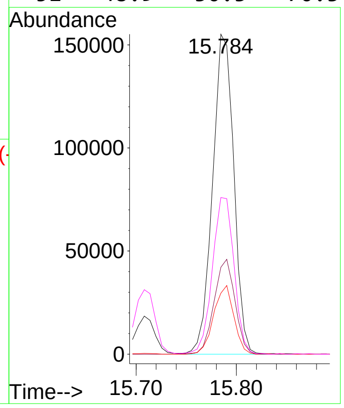
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 59.0 | 42.3 | 82.3 |
| 108 | 147.9 | 147.7 | 187.7 |



ICAL Form



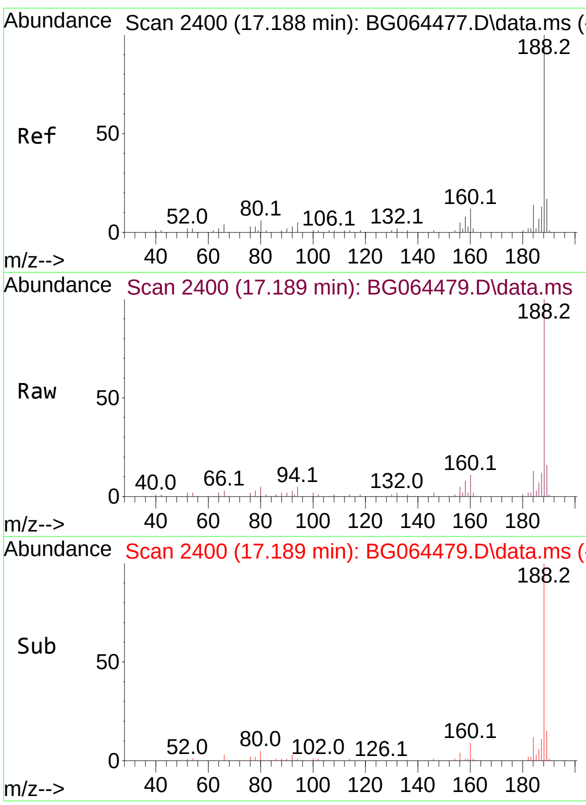

```
#63
Azobenzene
Concen:   59.443 ng
RT:  15.784 min  Scan# 2
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion: 77 Resp:  22906
Ion  Ratio  Lower  Upper
 77  100
182   27.1    6.3   46.3
105   19.0    0.0   38.7
 51   48.9   30.3   70.3
```



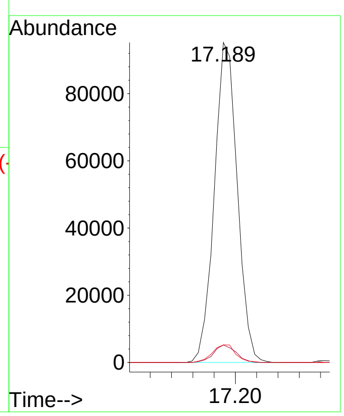

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

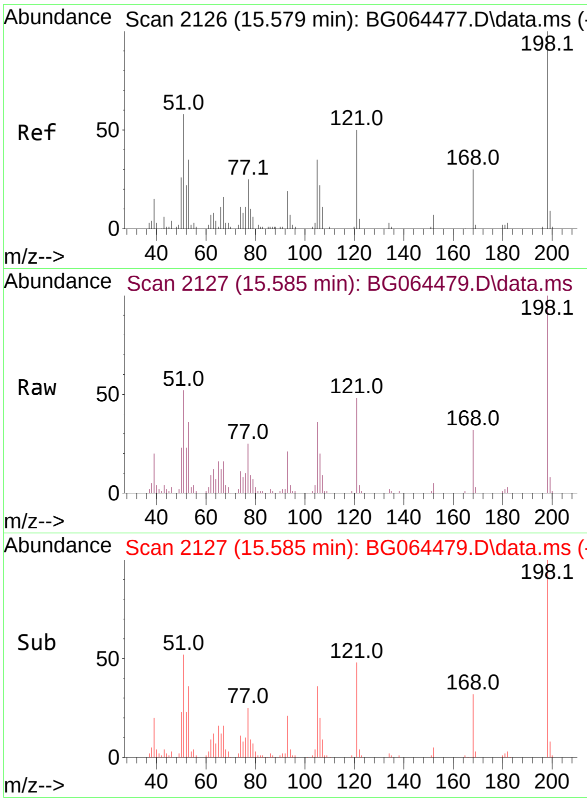
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




```
#64
Phenanthrene-d10
Concen:   20.000 ng
RT:  17.189 min  Scan# 2400
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:188 Resp:  143075
Ion  Ratio  Lower  Upper
188  100
 94    5.4    3.7    5.5
 80    5.5    4.5    6.7
```



ICAL Form

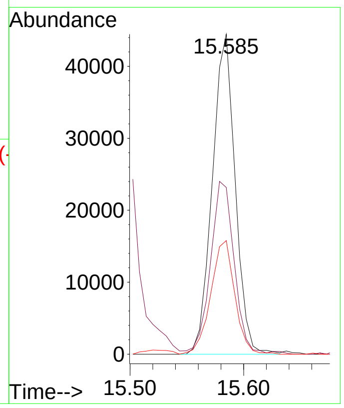


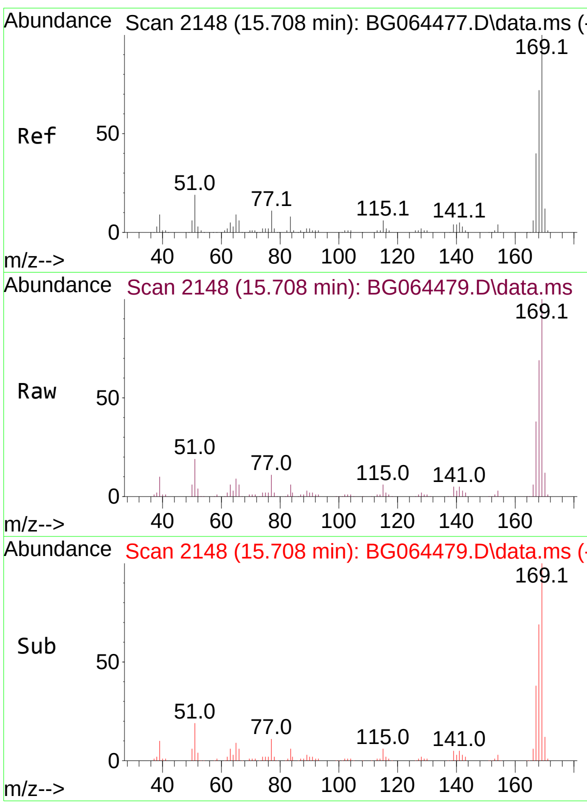

```
#65
4,6-Dinitro-2-methylphenol
Concen:   62.533 ng
RT:  15.585 min  Scan# 21
Delta R.T.  0.009 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:198 Resp:   62295
Ion  Ratio  Lower  Upper
198  100
 51   52.1   39.0   79.0
105   35.5   15.8   55.8
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

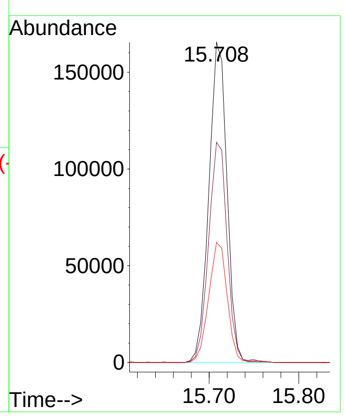
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

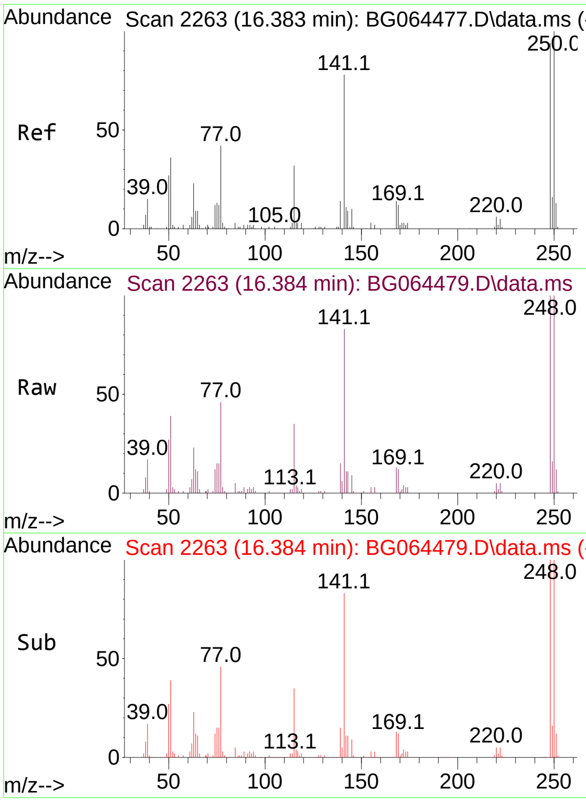



```
#66
n-Nitrosodiphenylamine
Concen:   60.822 ng
RT:  15.708 min  Scan# 2148
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:169 Resp:  232383
Ion  Ratio  Lower  Upper
169  100
168   68.8   57.8   86.6
167   37.5   31.7   47.5
```



ICAL Form



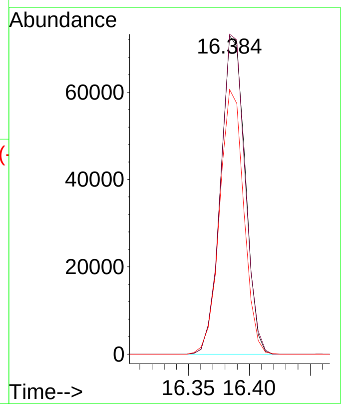

#67
4-Bromophenyl-phenylether
Concen: 60.380 ng
RT: 16.384 min Scan# 22
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

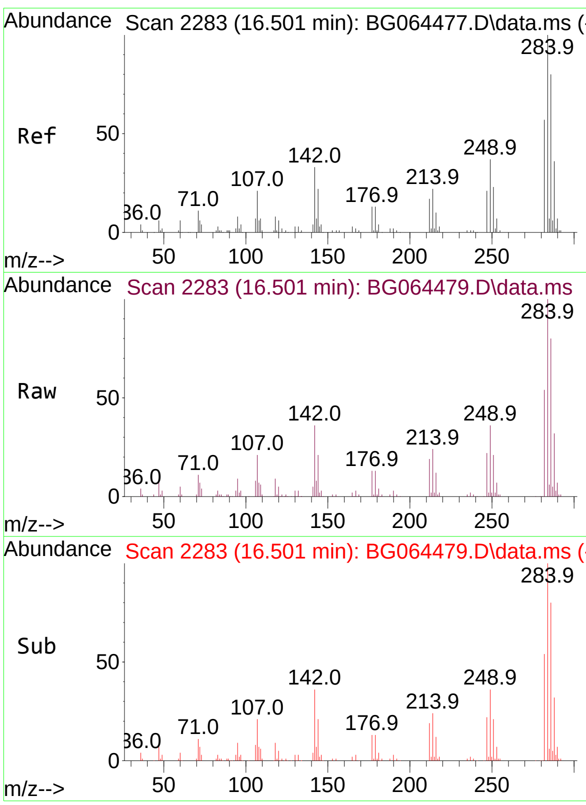
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

Tgt Ion:248 Resp: 10165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.5 | 85.3 | 127.9 |
| 141 | 83.1 | 66.2 | 99.2 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

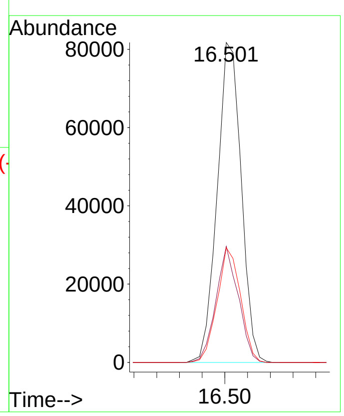


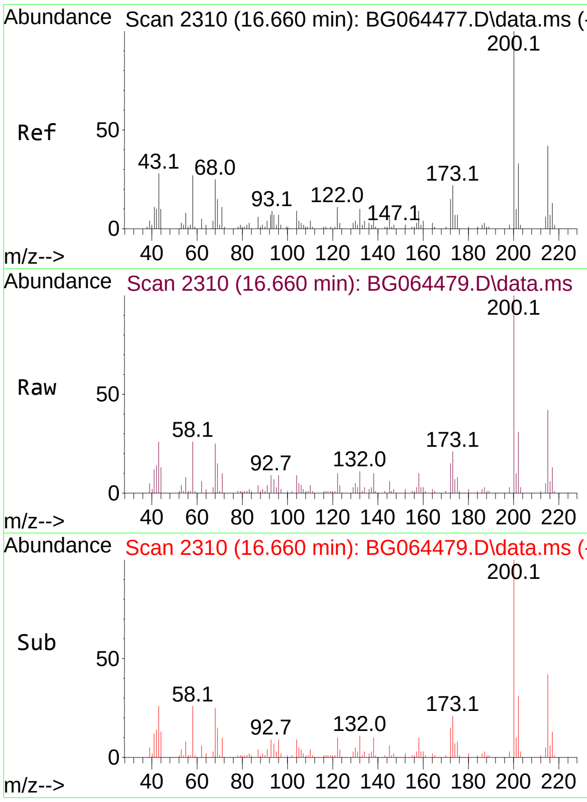

#68
Hexachlorobenzene
Concen: 62.318 ng
RT: 16.501 min Scan# 2283
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:284 Resp: 120060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 36.3 | 26.2 | 39.2 |
| 249 | 35.8 | 29.4 | 44.0 |



ICAL Form




#69
Atrazine
Concen: 60.299 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

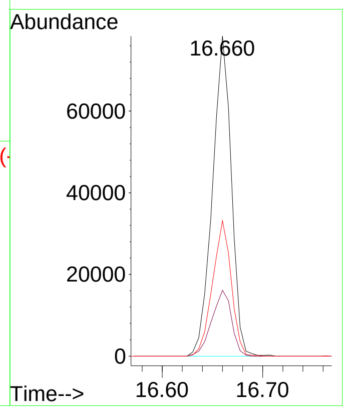
Tgt Ion:200 Resp: 102498

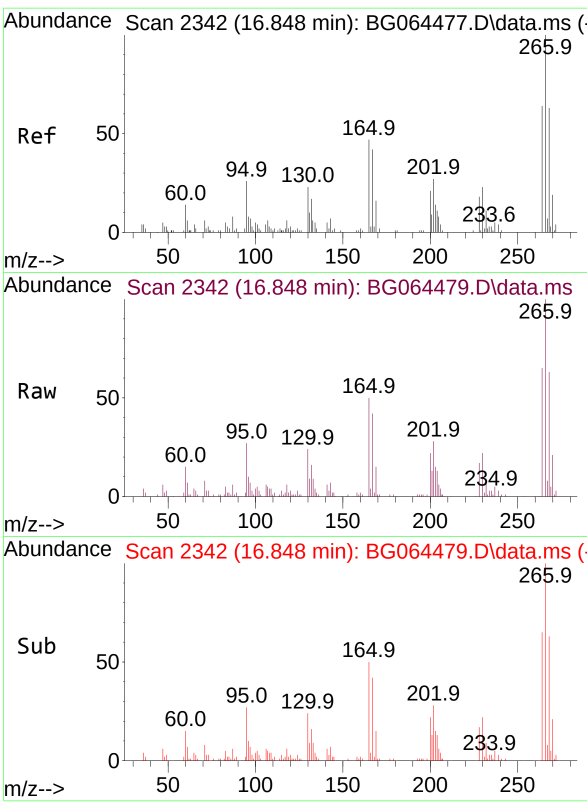
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 20.6 | 2.5 | 42.5 |
| 215 | 42.3 | 21.5 | 61.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

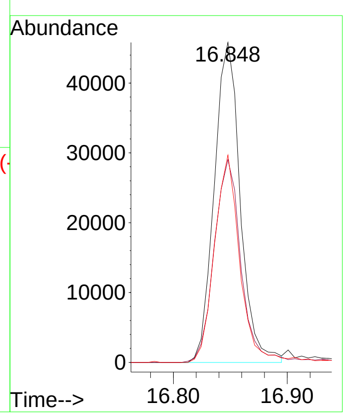


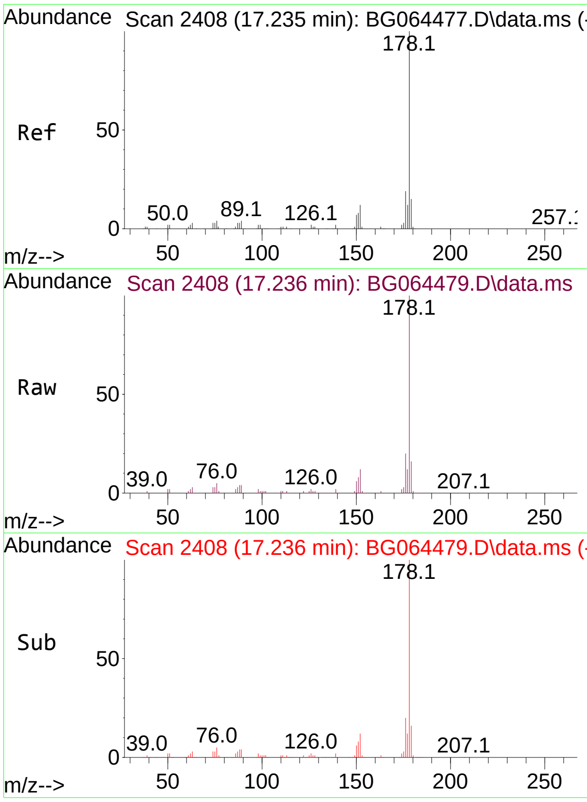

#70
Pentachlorophenol
Concen: 64.730 ng
RT: 16.848 min Scan# 2342
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:266 Resp: 72916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.3 | 50.6 | 75.8 |
| 264 | 64.8 | 51.2 | 76.8 |



ICAL Form



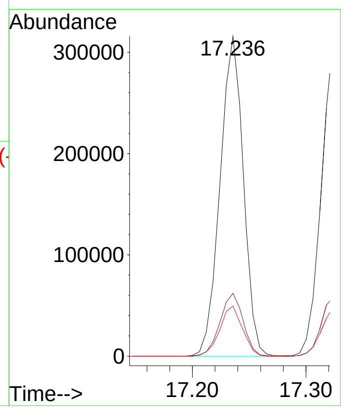

#71
Phenanthrene
Concen: 60.221 ng
RT: 17.236 min Scan# 24
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

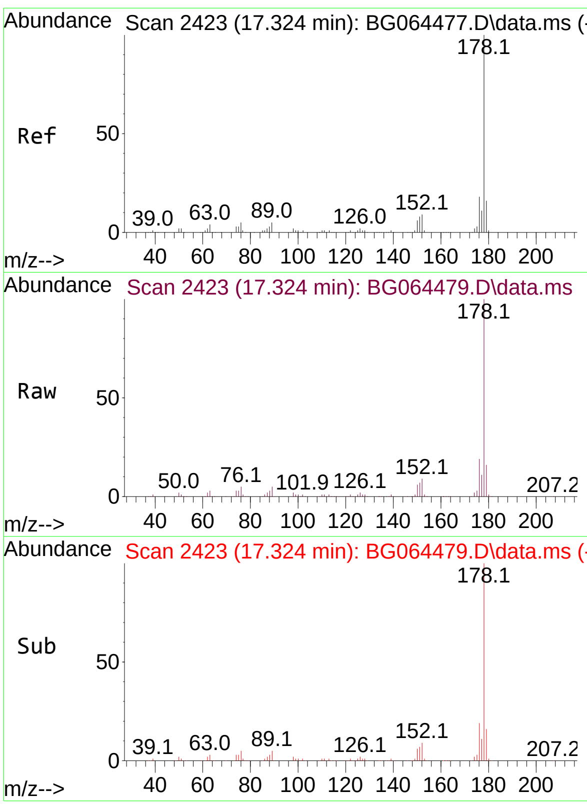
Tgt Ion:178 Resp: 45058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.2 | 22.8 |
| 179 | 15.6 | 11.8 | 17.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

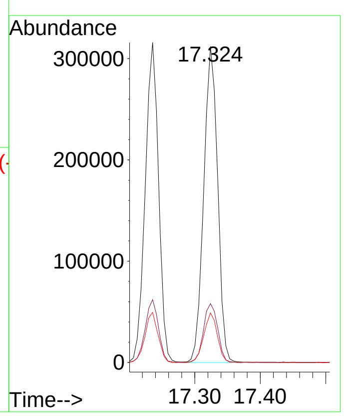



#72
Anthracene
Concen: 61.100 ng
RT: 17.324 min Scan# 2423
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:178 Resp: 458626

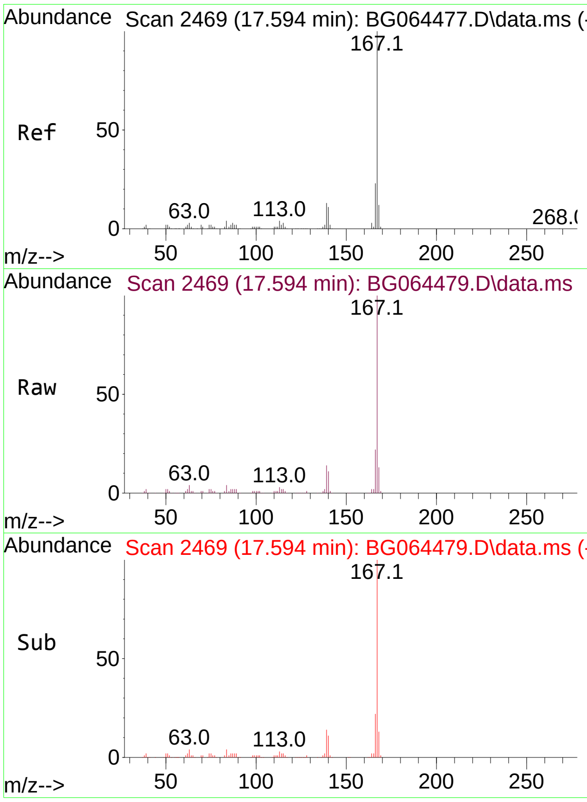
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 21.8 |
| 179 | 15.7 | 12.5 | 18.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

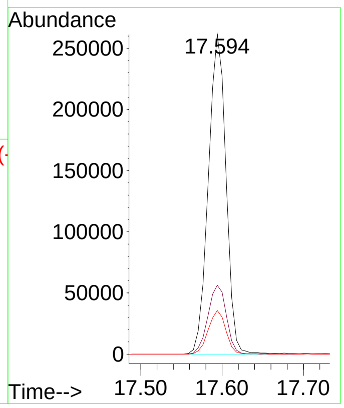
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

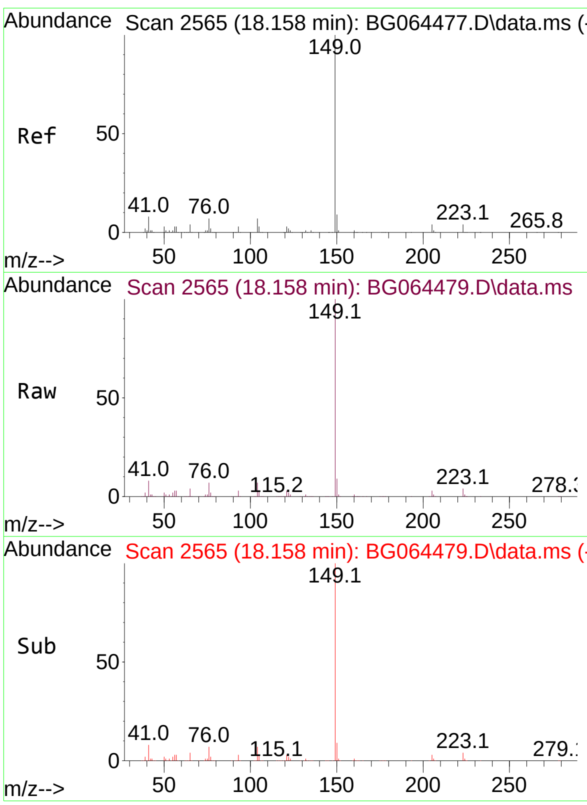



#73
Carbazole
Concen: 60.961 ng
RT: 17.594 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:167 Resp: 39552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.5 | 18.6 | 27.8 |
| 139 | 13.6 | 10.2 | 15.4 |

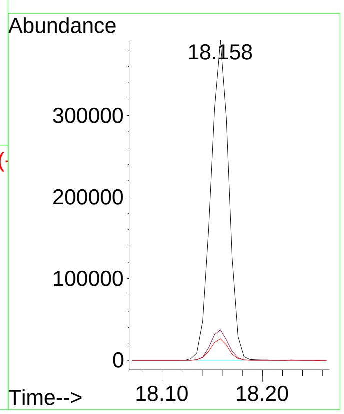



#74
Di-n-butylphthalate
Concen: 61.267 ng
RT: 18.158 min Scan# 2565
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:149 Resp: 485256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.5 | 7.4 | 11.2 |
| 104 | 6.7 | 5.3 | 7.9 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

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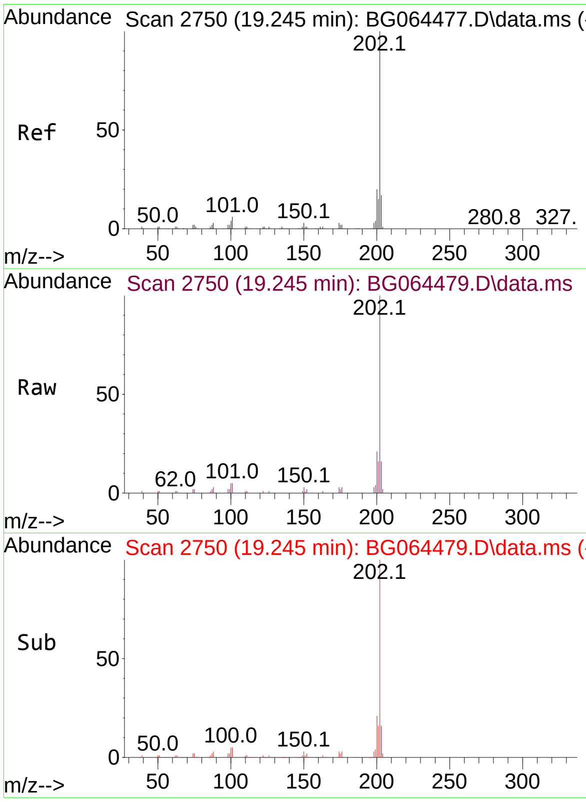
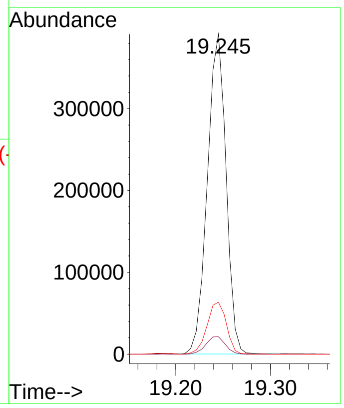
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

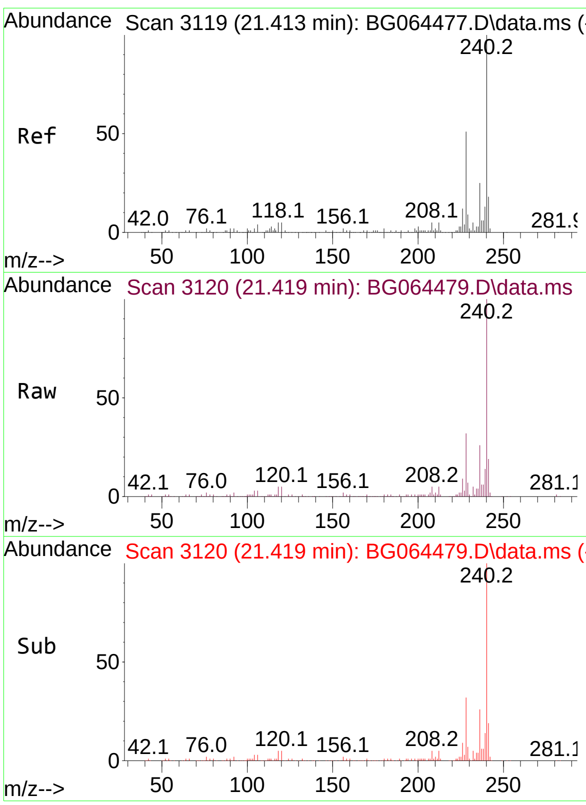



#75
Fluoranthene
Concen: 60.154 ng
RT: 19.245 min Scan# 2
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:202 Resp: 53769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.4 | 0.0 | 25.7 |
| 203 | 16.3 | 0.0 | 36.6 |

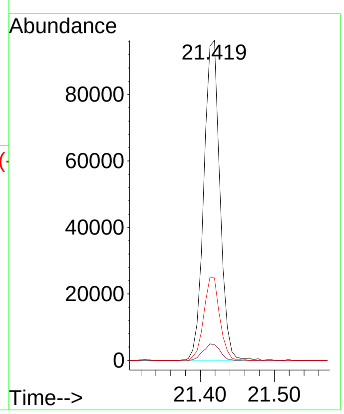



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.419 min Scan# 3120
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:240 Resp: 144920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 4.9 | 4.3 | 6.5 |
| 236 | 25.7 | 20.4 | 30.6 |



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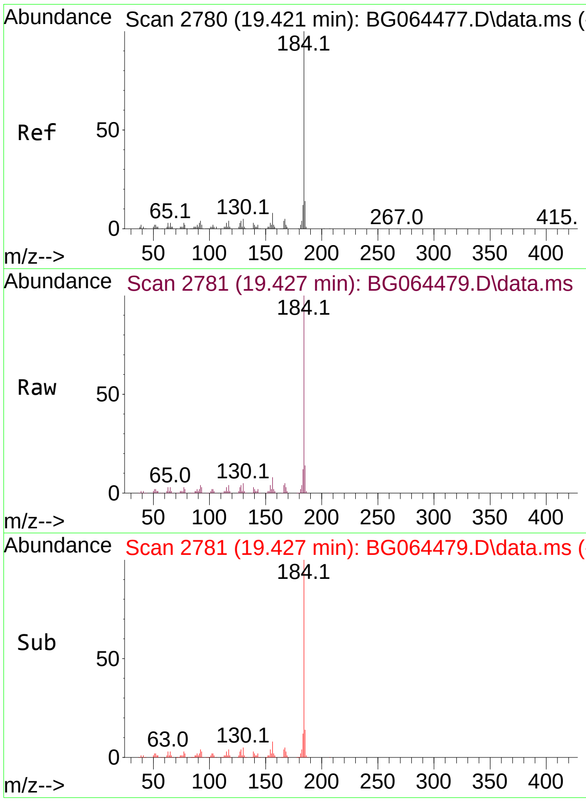



#77
Benzidine
Concen: 74.880 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

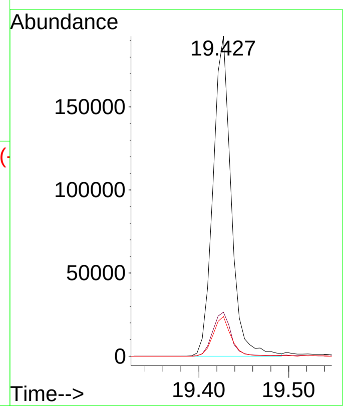
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

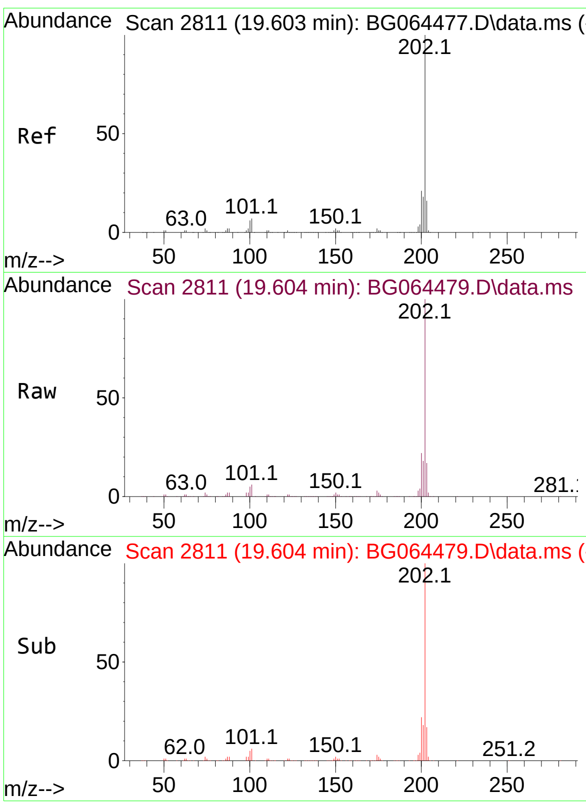
Tgt Ion:184 Resp: 27002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.7 | 10.9 | 16.3 |
| 183 | 12.4 | 9.8 | 14.6 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

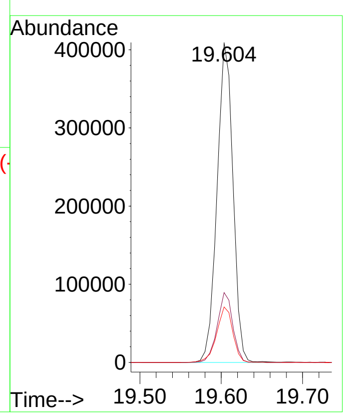



#78
Pyrene
Concen: 59.207 ng
RT: 19.604 min Scan# 2811
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:202 Resp: 556837

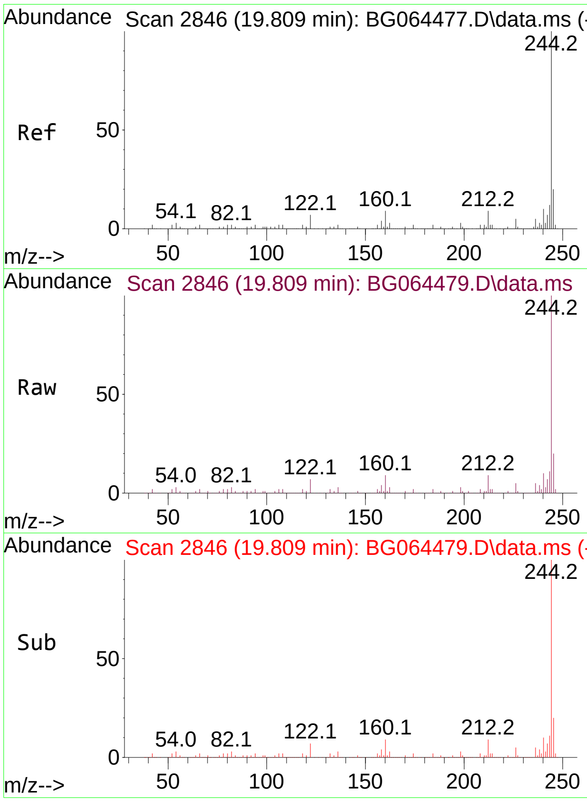
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 17.0 | 25.4 |
| 203 | 17.3 | 13.0 | 19.4 |



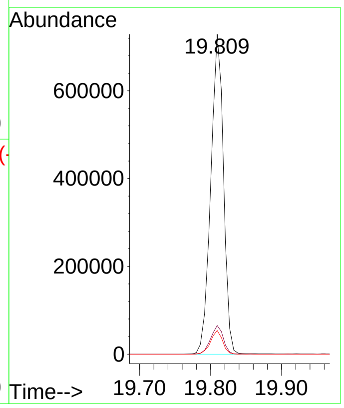
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

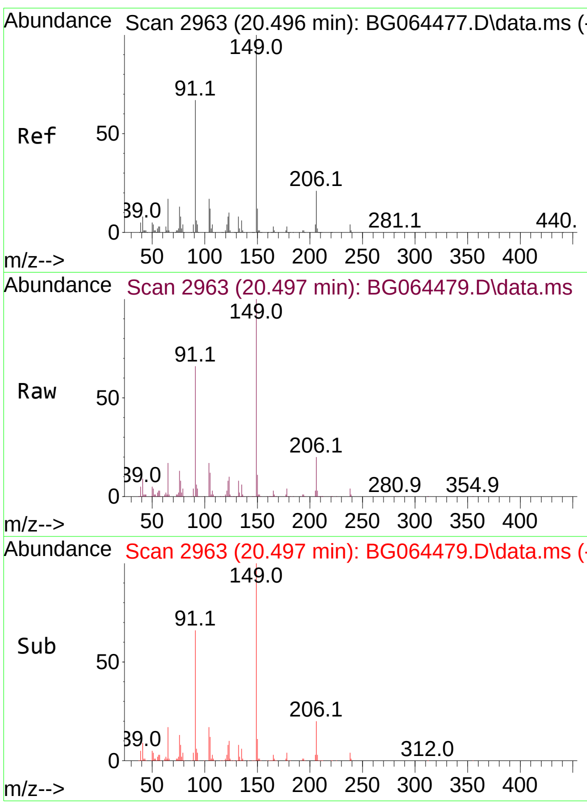
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

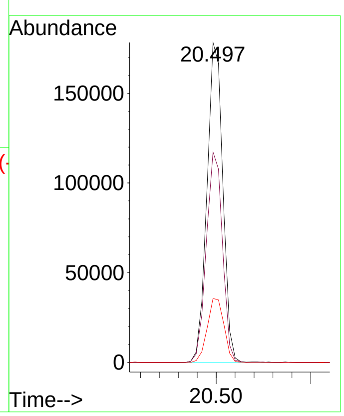



```
#79
Terphenyl-d14
Concen:  118.598 ng
RT:  19.809 min  Scan# 28
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:244 Resp:  90817
Ion  Ratio  Lower  Upper
244  100
212    8.9    7.0   10.6
122    7.4    5.6    8.4
```

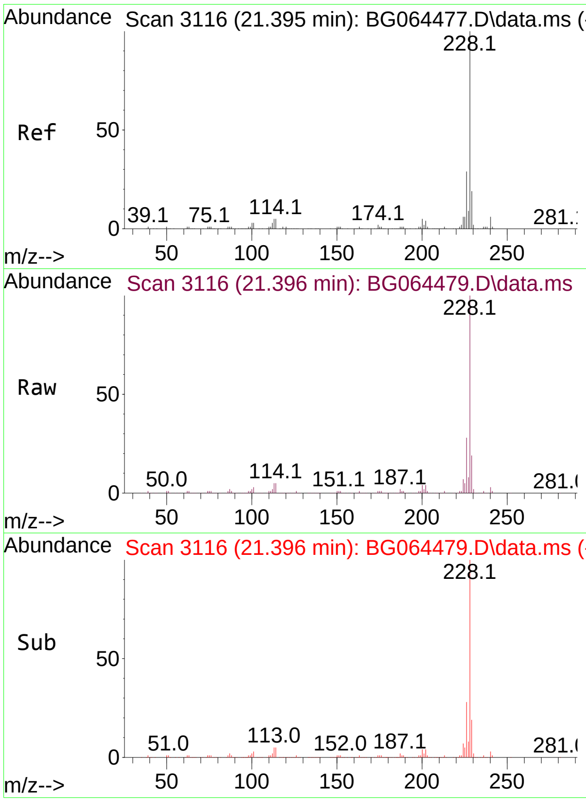



```
#80
Butylbenzylphthalate
Concen:   62.426 ng
RT:  20.497 min  Scan# 2963
Delta R.T.  -0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:149 Resp:  208125
Ion  Ratio  Lower  Upper
149  100
 91   65.7   53.7   80.5
206   20.0   16.6   24.8
```



ICAL Form




#81
Benzo(a)anthracene
Concen: 60.676 ng
RT: 21.396 min Scan# 31
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:228 Resp: 56145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.8 | 34.2 |
| 229 | 19.4 | 15.2 | 22.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
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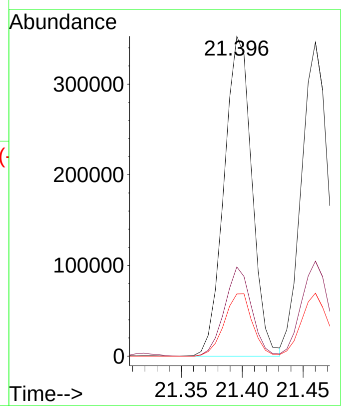
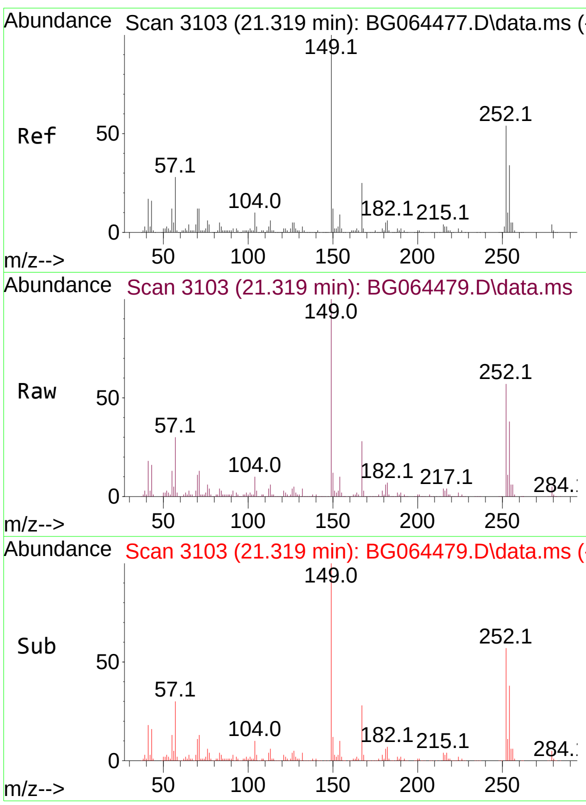
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

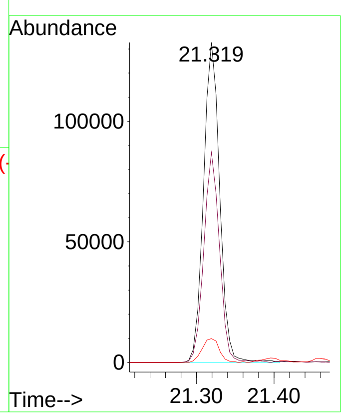



#82
3,3'-Dichlorobenzidine
Concen: 61.540 ng
RT: 21.319 min Scan# 3103
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:252 Resp: 192733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 65.6 | 50.5 | 75.7 |
| 126 | 7.4 | 7.1 | 10.7 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
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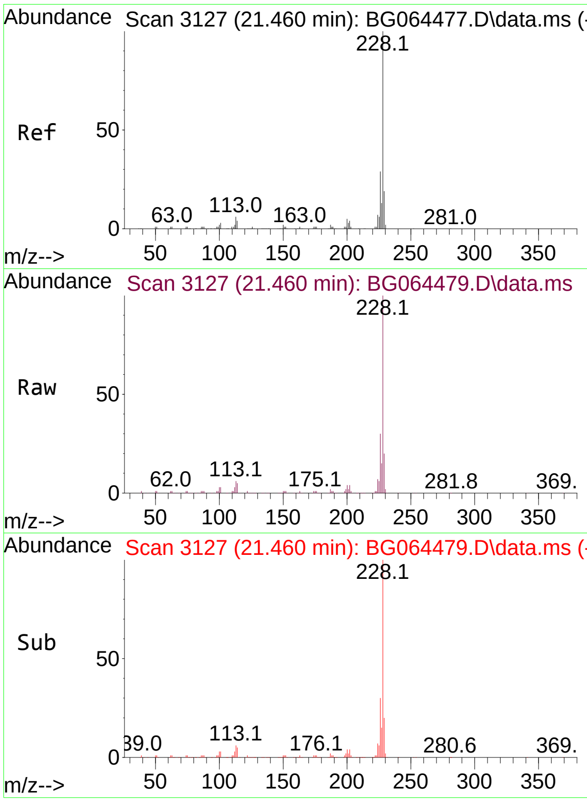
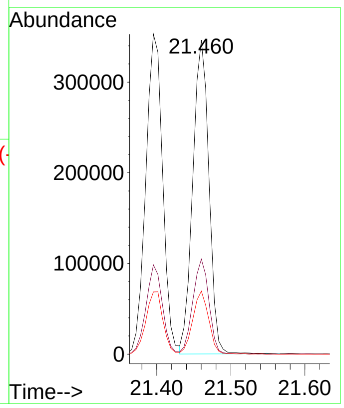
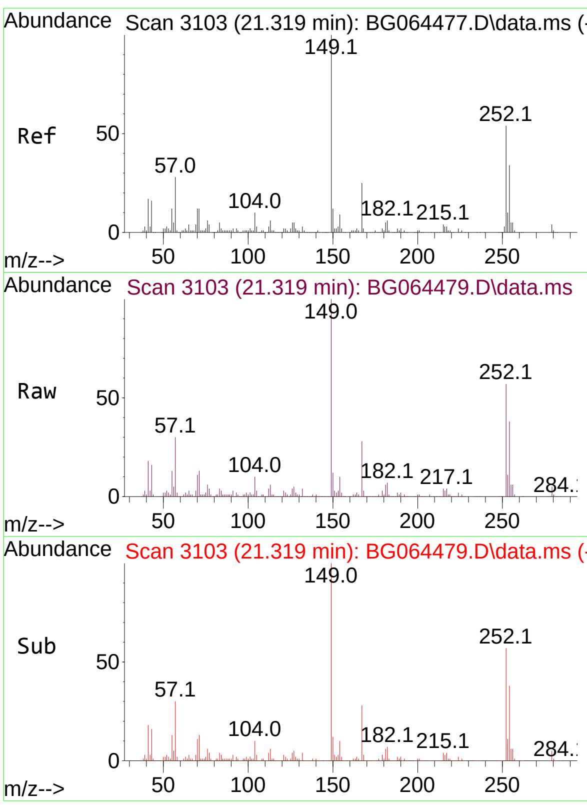
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

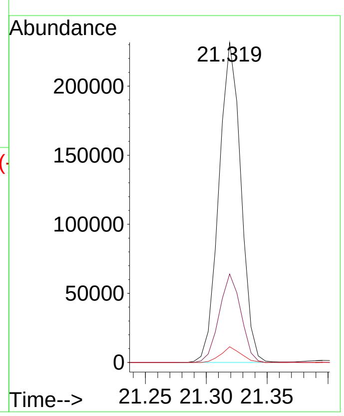



```
#83
Chrysene
Concen:   59.928 ng
RT:  21.460 min  Scan# 31
Delta R.T.  0.009 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:228 Resp:  52589
Ion  Ratio  Lower  Upper
228  100
226   30.2   22.8   34.2
229   20.0   15.4   23.0
```




```
#84
Bis(2-ethylhexyl)phthalate
Concen:   61.932 ng
RT:  21.319 min  Scan# 3103
Delta R.T.  0.003 min
Lab File:   BG064479.D
Acq:  2 Oct 2025  13:35

Tgt Ion:149 Resp:  291329
Ion  Ratio  Lower  Upper
149  100
167   27.6   19.7   29.5
279    4.9    3.4    5.2
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
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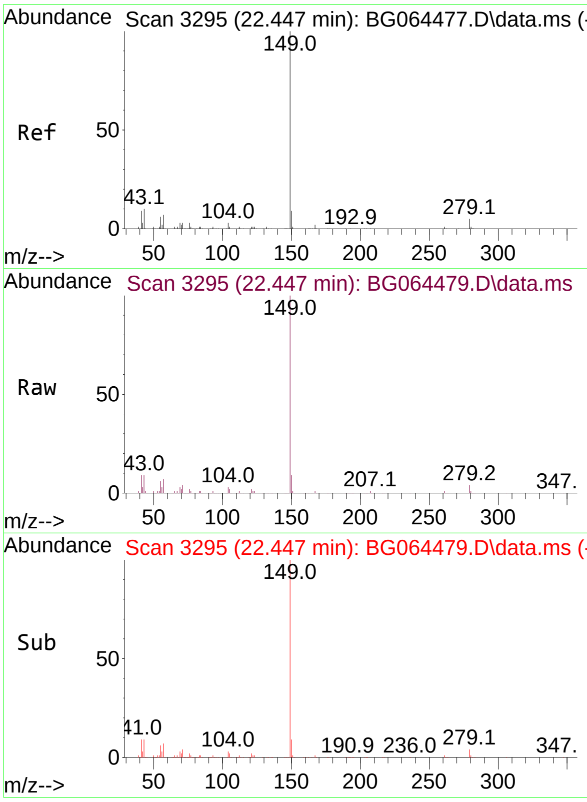
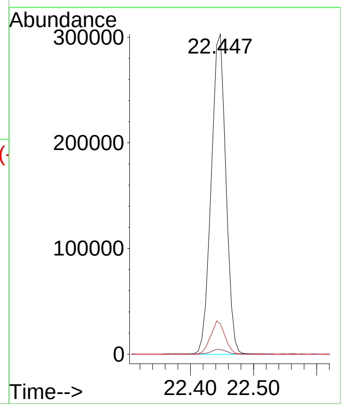
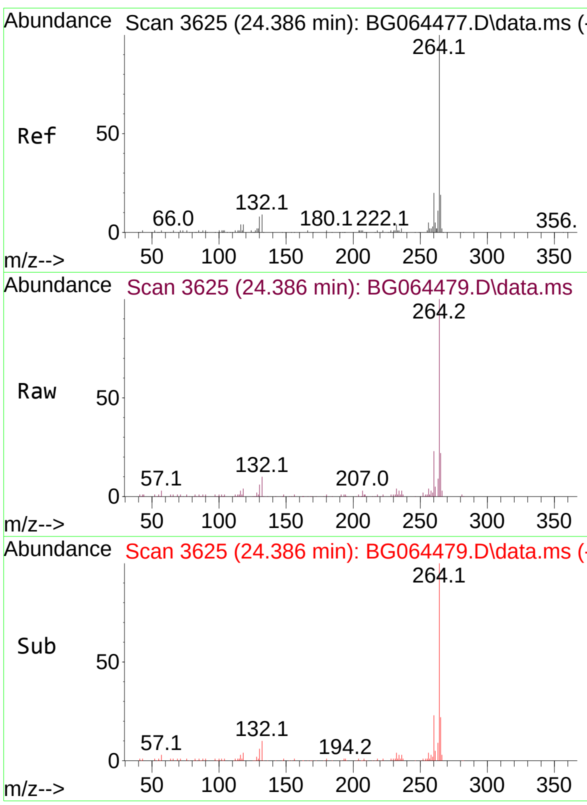



#85
Di-n-octyl phthalate
Concen: 61.881 ng
RT: 22.447 min Scan# 3
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:149 Resp: 48922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.4 | 2.0 |
| 43 | 10.2 | 7.9 | 11.9 |

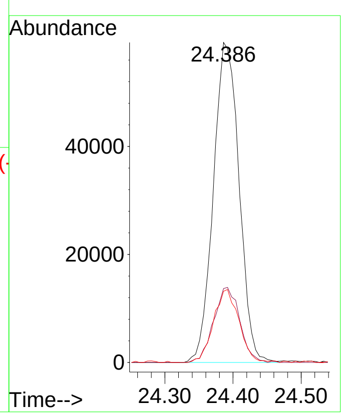



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.386 min Scan# 3625
Delta R.T. -0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:264 Resp: 155027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.1 | 16.2 | 24.4 |
| 265 | 22.3 | 15.0 | 22.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**
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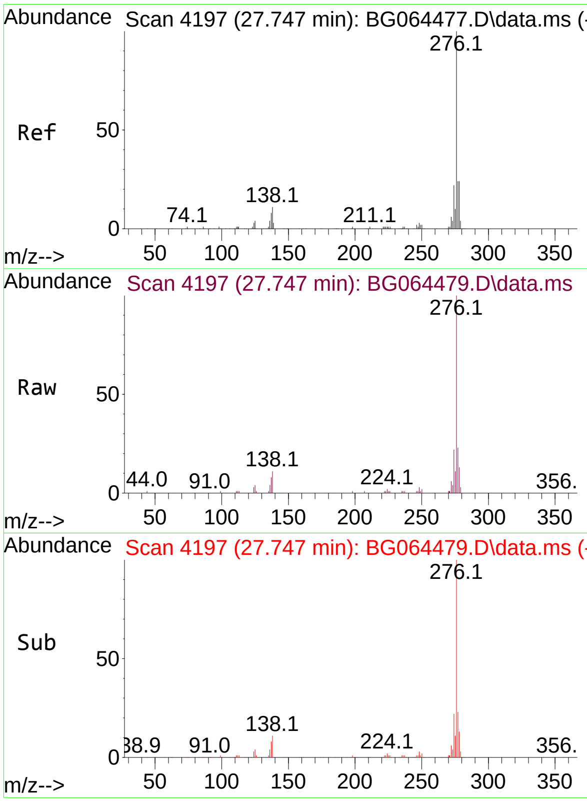
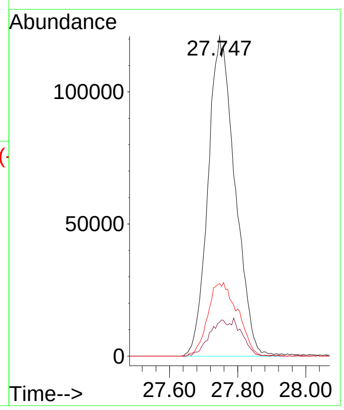
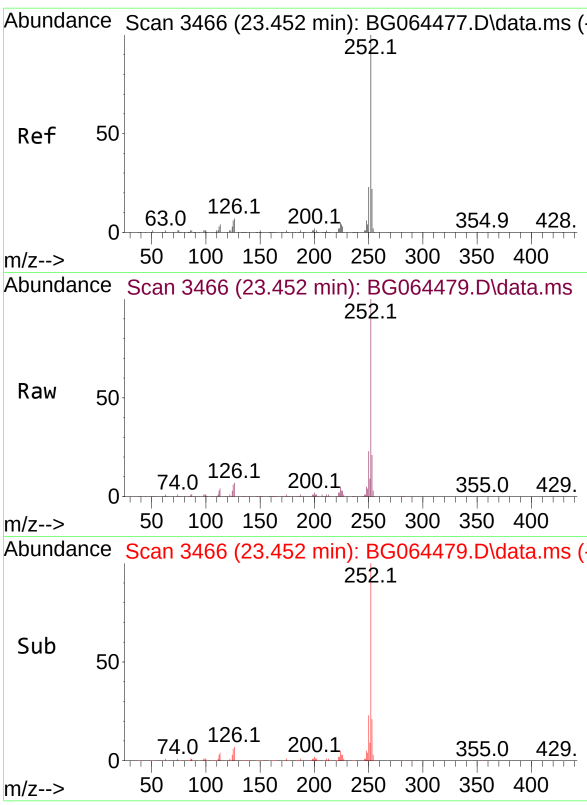



#87
Indeno(1,2,3-cd)pyrene
Concen: 61.679 ng
RT: 27.747 min Scan# 41
Delta R.T. 0.015 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:276 Resp: 66557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 7.6 | 10.8 | 16.2# |
| 277 | 25.4 | 20.3 | 30.5 |

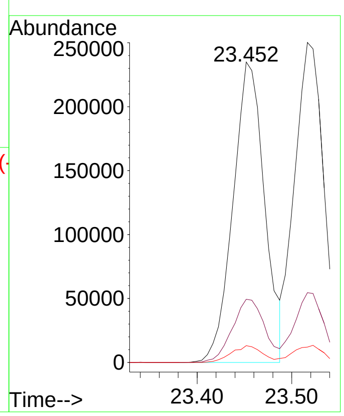


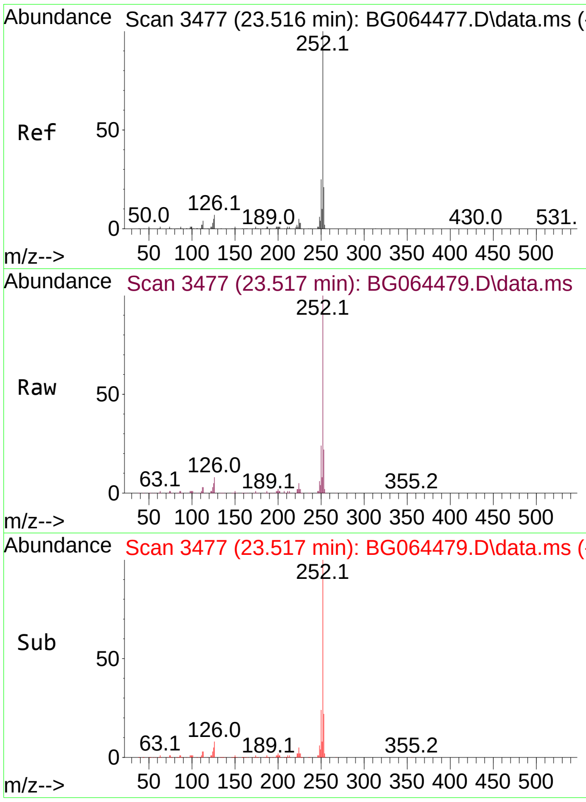




#88
Benzo(b)fluoranthene
Concen: 61.635 ng
RT: 23.452 min Scan# 3466
Delta R.T. 0.003 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:252 Resp: 543592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.0 | 17.5 | 26.3 |
| 125 | 5.6 | 4.5 | 6.7 |

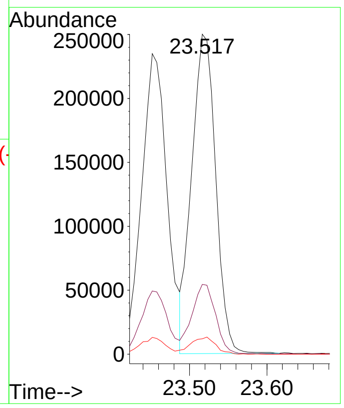





#89
Benzo(k)fluoranthene
Concen: 60.551 ng
RT: 23.517 min Scan# 34
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:252 Resp: 537854

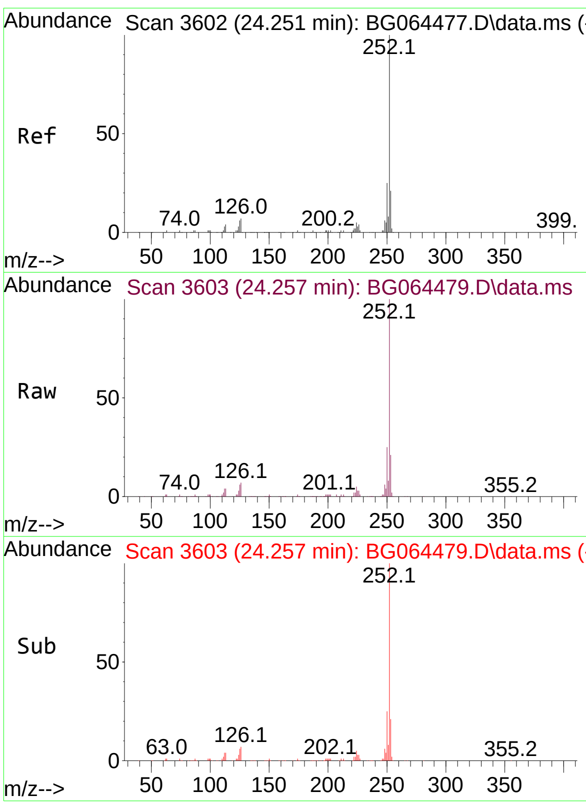
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.4 | 26.2 |
| 125 | 4.8 | 4.0 | 6.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations APPROVED**

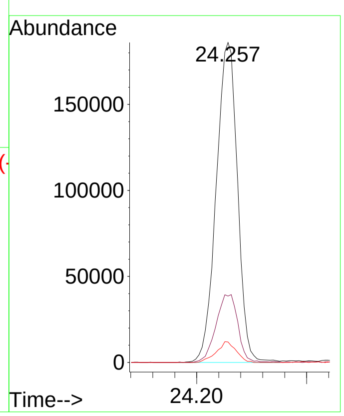
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

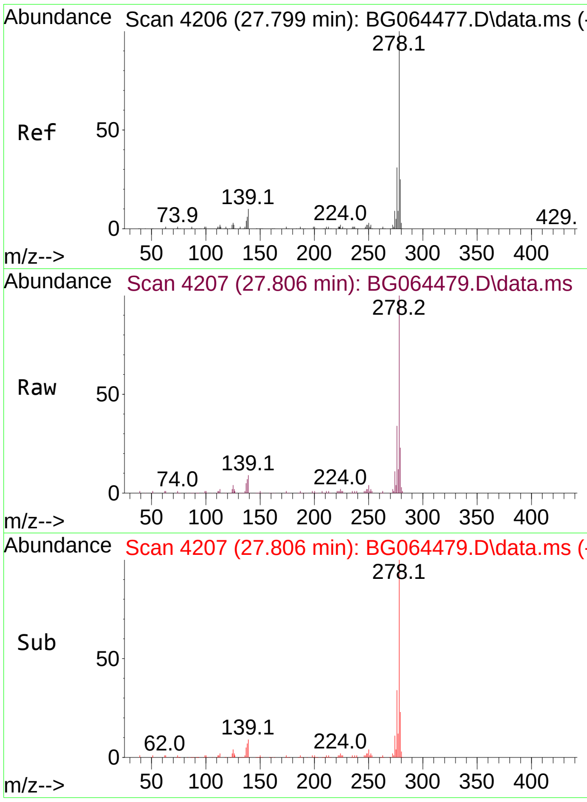



#90
Benzo(a)pyrene
Concen: 61.533 ng
RT: 24.257 min Scan# 3603
Delta R.T. 0.009 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:252 Resp: 500159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.7 | 17.1 | 25.7 |
| 125 | 6.4 | 4.6 | 6.8 |





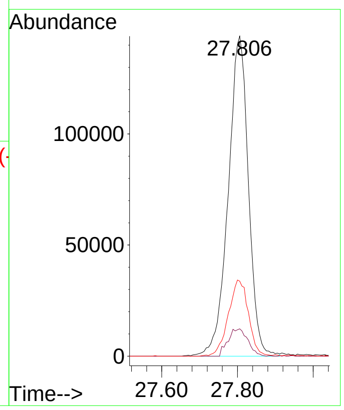

#91
Dibenzo(a,h)anthracene
Concen: 62.043 ng
RT: 27.806 min Scan# 4
Delta R.T. 0.026 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

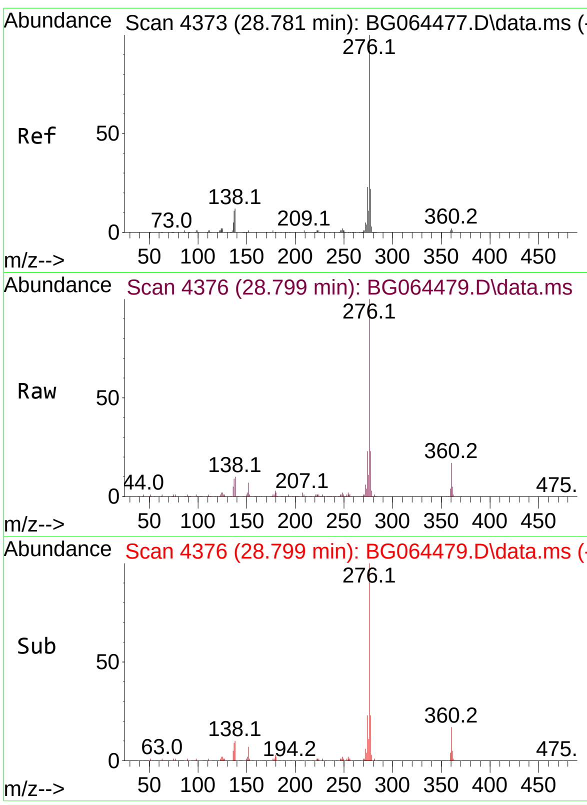
Tgt Ion:278 Resp: 53540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 8.6 | 8.2 | 12.2 |
| 279 | 23.4 | 19.6 | 29.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC060

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

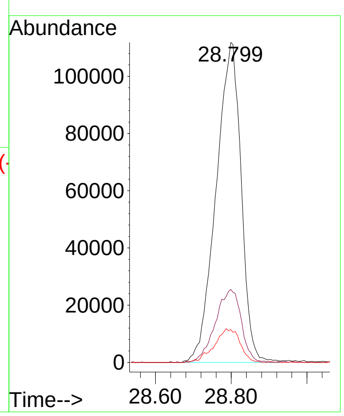



#92
Benzo(g,h,i)perylene
Concen: 61.207 ng
RT: 28.799 min Scan# 4376
Delta R.T. 0.032 min
Lab File: BG064479.D
Acq: 2 Oct 2025 13:35

Tgt Ion:276 Resp: 513293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.8 | 17.8 | 26.6 |
| 138 | 10.2 | 9.4 | 14.0 |



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064480.D
Acq On : 2 Oct 2025 14:16
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:53:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.825 | 152 | 22534 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.610 | 136 | 94569 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.453 | 164 | 72073 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.191 | 188 | 168856 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.415 | 240 | 171497 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.394 | 264 | 185893 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.416 | 112 | 189884 | 155.949 | ng | | 0.01 |
| 7) Phenol-d6 | 7.009 | 99 | 250763 | 153.254 | ng | | 0.02 |
| 23) Nitrobenzene-d5 | 8.989 | 82 | 279078 | 158.678 | ng | | 0.02 |
| 42) 2,4,6-Tribromophenol | 15.945 | 330 | 200950 | 153.817 | ng | | 0.01 |
| 45) 2-Fluorobiphenyl | 13.078 | 172 | 755535 | 154.518 | ng | | 0.01 |
| 79) Terphenyl-d14 | 19.811 | 244 | 1375899 | 151.833 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.325 | 88 | 34310 | 71.240 | ng | | 94 |
| 3) Pyridine | 3.718 | 79 | 97843 | 75.592 | ng | | 93 |
| 4) n-Nitrosodimethylamine | 3.636 | 42 | 73356 | 78.177 | ng | | 92 |
| 6) Aniline | 7.161 | 93 | 155867 | 75.518 | ng | | 98 |
| 8) 2-Chlorophenol | 7.396 | 128 | 114558 | 76.619 | ng | | 98 |
| 9) Benzaldehyde | 6.968 | 77 | 93496 | 64.370 | ng | | 96 |
| 10) Phenol | 7.032 | 94 | 134875 | 78.138 | ng | | 97 |
| 11) bis(2-Chloroethyl)ether | 7.255 | 93 | 89425 | 76.500 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 7.720 | 146 | 122844 | 75.107 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 7.861 | 146 | 124619 | 75.917 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 8.178 | 146 | 120364 | 74.398 | ng | | 95 |
| 15) Benzyl Alcohol | 8.066 | 79 | 118265 | 78.483 | ng | | 97 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.348 | 45 | 140388 | 74.507 | ng | | 96 |
| 17) 2-Methylphenol | 8.272 | 107 | 97064 | 77.657 | ng | | 97 |
| 18) Hexachloroethane | 8.901 | 117 | 49027 | 75.666 | ng | | 90 |
| 19) n-Nitroso-di-n-propyla... | 8.636 | 70 | 83485 | 76.290 | ng | | 91 |
| 20) 3+4-Methylphenols | 8.607 | 107 | 134638 | 77.191 | ng | | 95 |
| 22) Acetophenone | 8.648 | 105 | 183701 | 80.227 | ng | # | 98 |
| 24) Nitrobenzene | 9.024 | 77 | 135264 | 77.123 | ng | | 97 |
| 25) Isophorone | 9.553 | 82 | 245935 | 77.188 | ng | | 98 |
| 26) 2-Nitrophenol | 9.729 | 139 | 68332 | 78.281 | ng | | 93 |
| 27) 2,4-Dimethylphenol | 9.794 | 122 | 106151 | 79.619 | ng | | 95 |
| 28) bis(2-Chloroethoxy)met... | 10.029 | 93 | 128813 | 79.313 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 10.264 | 162 | 125552 | 81.436 | ng | | 96 |
| 30) 1,2,4-Trichlorobenzene | 10.481 | 180 | 131315 | 78.115 | ng | | 94 |
| 31) Naphthalene | 10.663 | 128 | 382573 | 78.560 | ng | | 98 |
| 32) Benzoic acid | 10.011 | 122 | 91798m | 89.680 | ng | | |
| 33) 4-Chloroaniline | 10.769 | 127 | 148423 | 79.425 | ng | | 97 |
| 34) Hexachlorobutadiene | 10.951 | 225 | 109953 | 76.374 | ng | | 94 |
| 35) Caprolactam | 11.580 | 113 | 40333 | 76.417 | ng | | 97 |
| 36) 4-Chloro-3-methylphenol | 11.909 | 107 | 149274 | 79.618 | ng | | 99 |
| 37) 2-Methylnaphthalene | 12.273 | 142 | 291318 | 77.931 | ng | | 97 |
| 38) 1-Methylnaphthalene | 12.496 | 142 | 286731 | 76.924 | ng | | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 12.643 | 216 | 186298 | 80.056 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 12.626 | 237 | 102505 | 84.207 | ng | | 96 |
| 43) 2,4,6-Trichlorophenol | 12.884 | 196 | 119404 | 80.265 | ng | | 94 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064480.D
Acq On : 2 Oct 2025 14:16
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 16:53:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.961 | 196 | 135525 | 81.602 ng | | 96 |
| 46) 1,1'-Biphenyl | 13.290 | 154 | 399798 | 77.125 ng | | 100 |
| 47) 2-Chloronaphthalene | 13.331 | 162 | 301691 | 77.951 ng | | 97 |
| 48) 2-Nitroaniline | 13.530 | 65 | 105087 | 79.555 ng | | 97 |
| 49) Acenaphthylene | 14.177 | 152 | 445834 | 77.600 ng | | 98 |
| 50) Dimethylphthalate | 13.912 | 163 | 430419 | 76.251 ng | | 98 |
| 51) 2,6-Dinitrotoluene | 14.036 | 165 | 91191 | 77.551 ng | | 91 |
| 52) Acenaphthene | 14.518 | 154 | 305038 | 76.421 ng | | 99 |
| 53) 3-Nitroaniline | 14.365 | 138 | 85333 | 78.688 ng | | 100 |
| 54) 2,4-Dinitrophenol | 14.570 | 184 | 63374 | 74.326 ng | | 91 |
| 55) Dibenzofuran | 14.852 | 168 | 505395 | 76.684 ng | | 99 |
| 56) 4-Nitrophenol | 14.676 | 139 | 66912 | 78.369 ng | | 84 |
| 57) 2,4-Dinitrotoluene | 14.823 | 165 | 137560 | 76.527 ng | | 96 |
| 58) Fluorene | 15.505 | 166 | 420400 | 76.728 ng | | 96 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.082 | 232 | 131866 | 77.799 ng | | 99 |
| 60) Diethylphthalate | 15.281 | 149 | 454922 | 75.126 ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 15.499 | 204 | 228883 | 76.517 ng | | 99 |
| 62) 4-Nitroaniline | 15.534 | 138 | 92207 | 81.579 ng | | 91 |
| 63) Azobenzene | 15.793 | 77 | 350430 | 74.723 ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 15.587 | 198 | 97300 | 82.760 ng | | 97 |
| 66) n-Nitrosodiphenylamine | 15.716 | 169 | 357258 | 79.230 ng | | 96 |
| 67) 4-Bromophenyl-phenylether | 16.386 | 248 | 162931 | 81.997 ng | | 95 |
| 68) Hexachlorobenzene | 16.509 | 284 | 182054 | 80.068 ng | | 97 |
| 69) Atrazine | 16.662 | 200 | 148051 | 73.799 ng | | 99 |
| 70) Pentachlorophenol | 16.850 | 266 | 117991 | 88.752 ng | | 97 |
| 71) Phenanthrene | 17.238 | 178 | 682440 | 77.283 ng | | 99 |
| 72) Anthracene | 17.326 | 178 | 694820 | 78.433 ng | | 99 |
| 73) Carbazole | 17.596 | 167 | 594667 | 77.661 ng | | 99 |
| 74) Di-n-butylphthalate | 18.160 | 149 | 726555 | 77.727 ng | | 100 |
| 75) Fluoranthene | 19.247 | 202 | 812928 | 77.060 ng | | 99 |
| 77) Benzidine | 19.424 | 184 | 246468 | 57.755 ng | | 98 |
| 78) Pyrene | 19.606 | 202 | 844065 | 75.840 ng | | 99 |
| 80) Butylbenzylphthalate | 20.499 | 149 | 314484 | 79.710 ng | | 96 |
| 81) Benzo(a)anthracene | 21.398 | 228 | 859554 | 78.497 ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 21.321 | 252 | 288449 | 77.829 ng | | 98 |
| 83) Chrysene | 21.462 | 228 | 807967 | 77.803 ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 21.321 | 149 | 451147 | 81.044 ng | | 97 |
| 85) Di-n-octyl phthalate | 22.449 | 149 | 747301 | 79.877 ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.767 | 276 | 1017303 | 78.621 ng | # | 93 |
| 88) Benzo(b)fluoranthene | 23.460 | 252 | 824972 | 78.008 ng | | 99 |
| 89) Benzo(k)fluoranthene | 23.525 | 252 | 849303 | 79.738 ng | | 99 |
| 90) Benzo(a)pyrene | 24.265 | 252 | 771257 | 79.130 ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 27.820 | 278 | 829660 | 80.178 ng | | 97 |
| 92) Benzo(g,h,i)perylene | 28.818 | 276 | 778918 | 77.460 ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

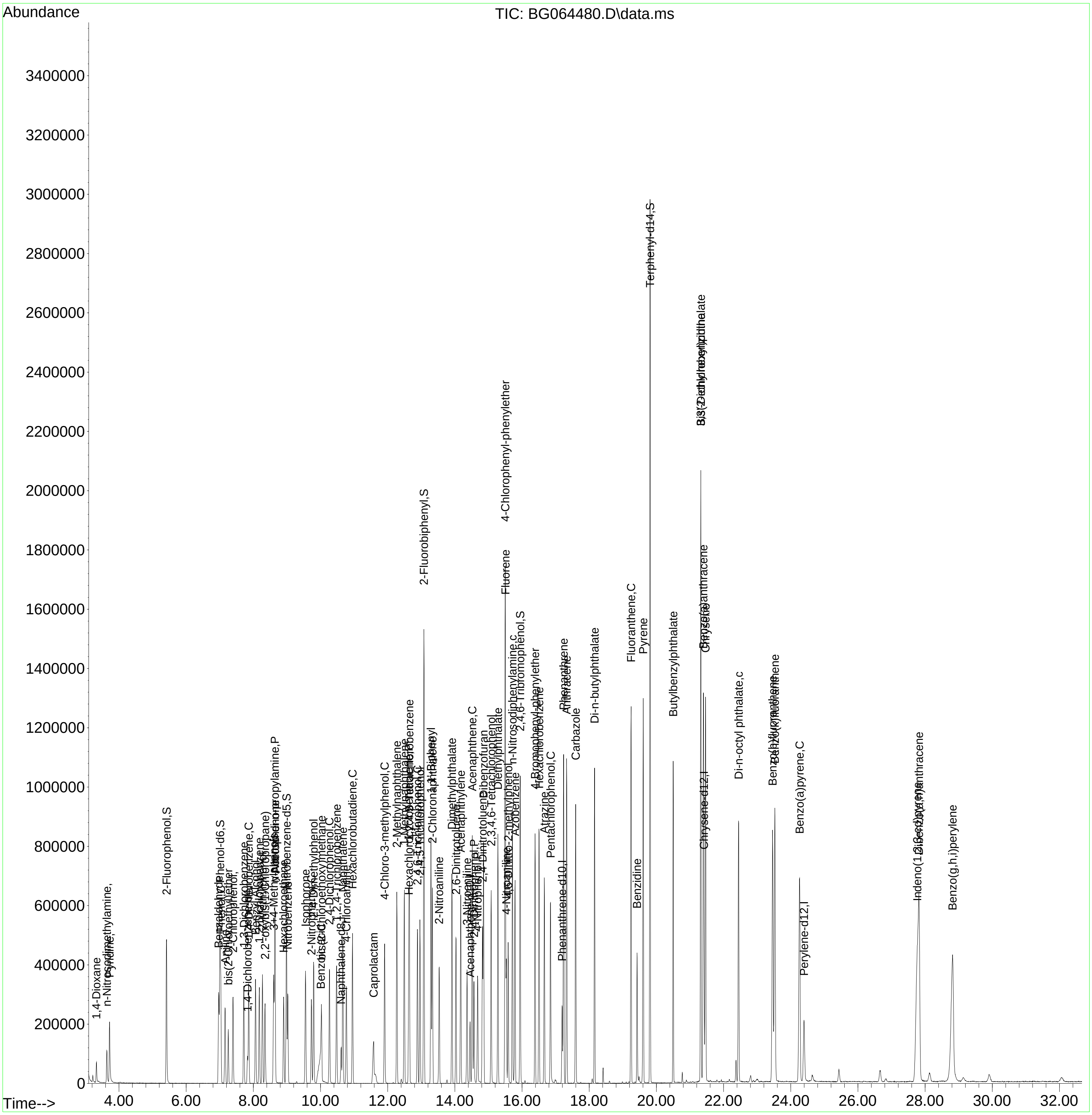
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064480.D
Acq On    :  2 Oct 2025  14:16
Operator  : RC/JU
Sample    : SSTDICC080
Misc      :
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Oct 02 16:53:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

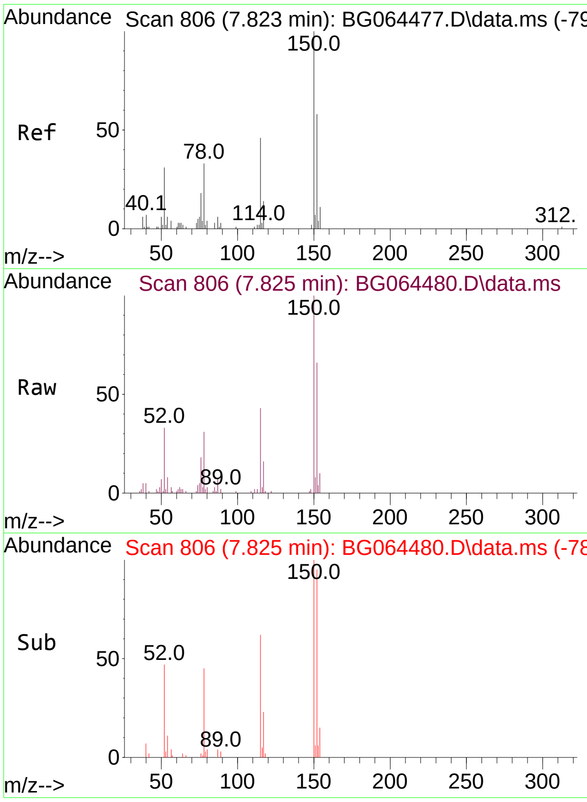


# ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

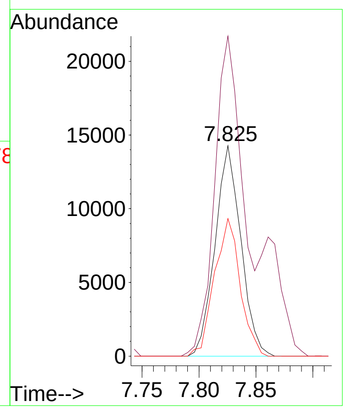
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

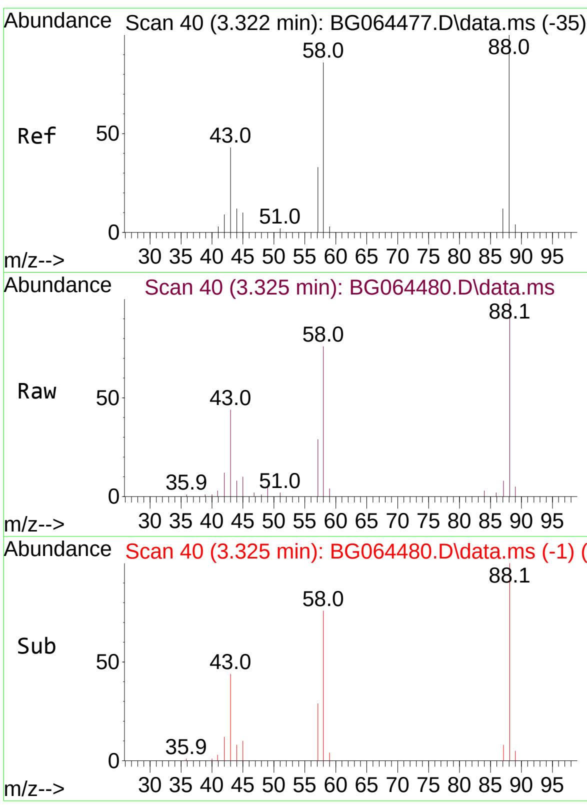



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.825 min Scan# 8
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:152 Resp: 2253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.2 | 138.6 | 207.8 |
| 115 | 65.4 | 63.4 | 95.2 |

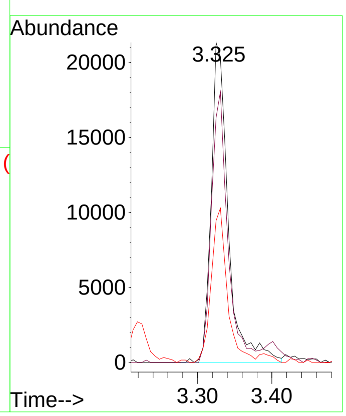


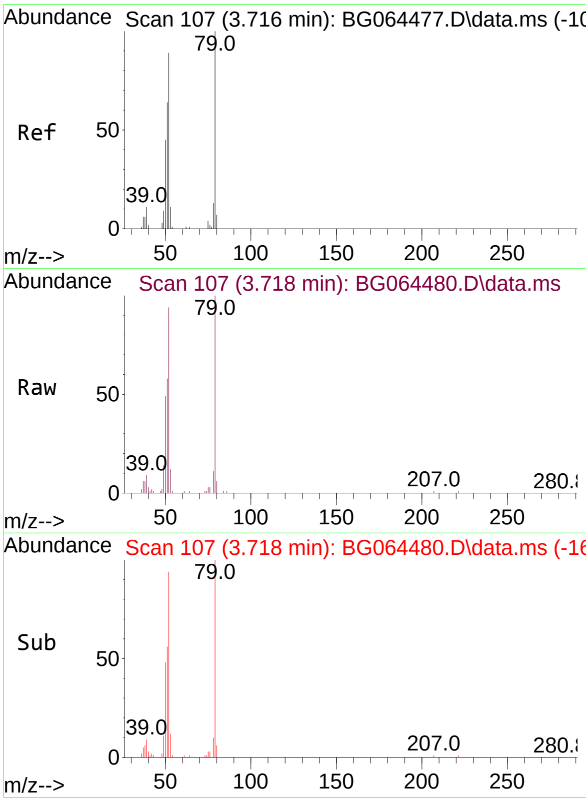

#2
1,4-Dioxane
Concen: 71.240 ng
RT: 3.325 min Scan# 40
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 88 Resp: 34310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.9 | 69.8 | 104.6 |
| 43 | 44.7 | 37.4 | 56.0 |



ICAL Form




#3
Pyridine
Concen: 75.592 ng
RT: 3.718 min Scan# 10
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

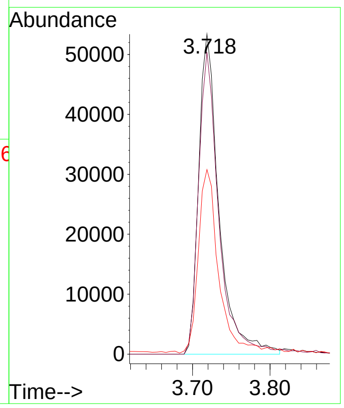
Tgt Ion: 79 Resp: 9784

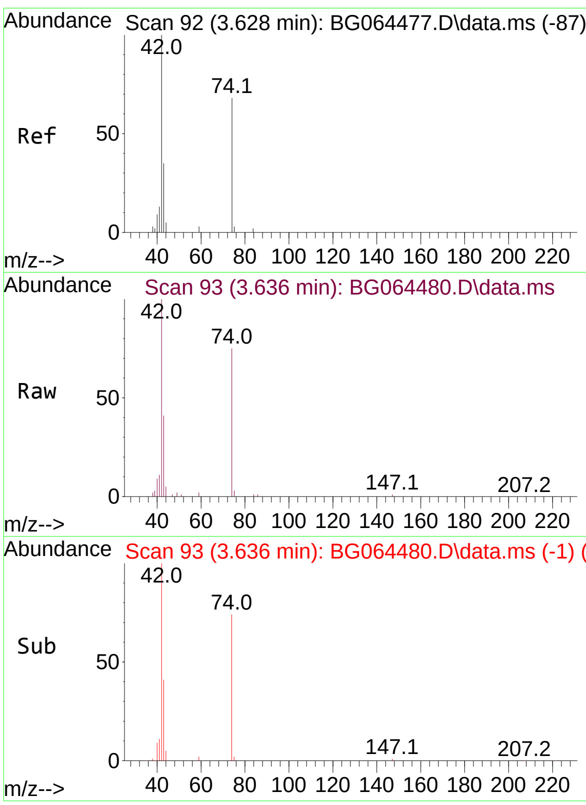
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 94.4 | 71.0 | 106.4 |
| 51 | 57.7 | 51.0 | 76.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

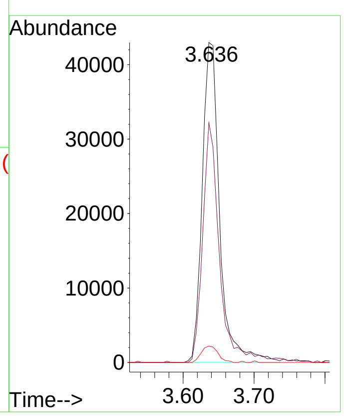


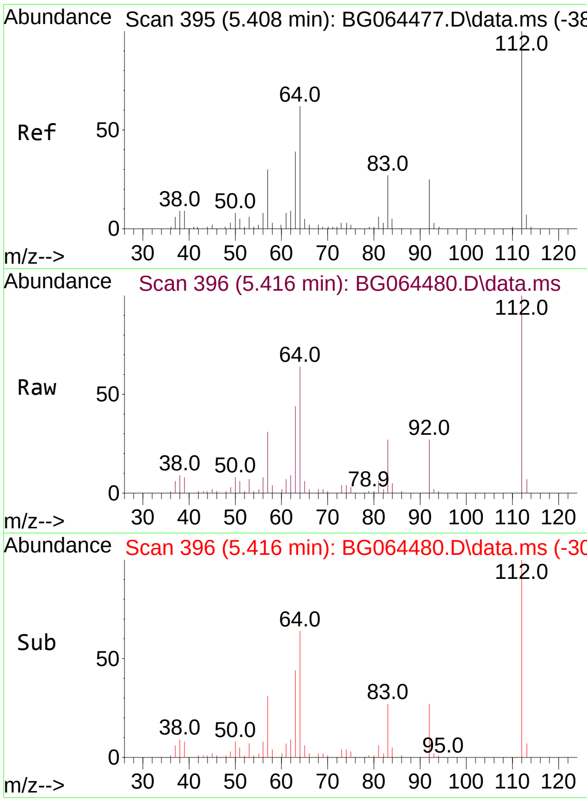




#4
n-Nitrosodimethylamine
Concen: 78.177 ng
RT: 3.636 min Scan# 93
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 42 Resp: 73356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 74.9 | 54.2 | 81.4 |
| 44 | 5.1 | 4.2 | 6.2 |






#5
2-Fluorophenol
Concen: 155.949 ng
RT: 5.416 min Scan# 39
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

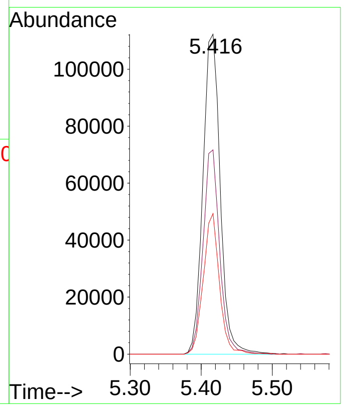
Tgt Ion:112 Resp: 189884

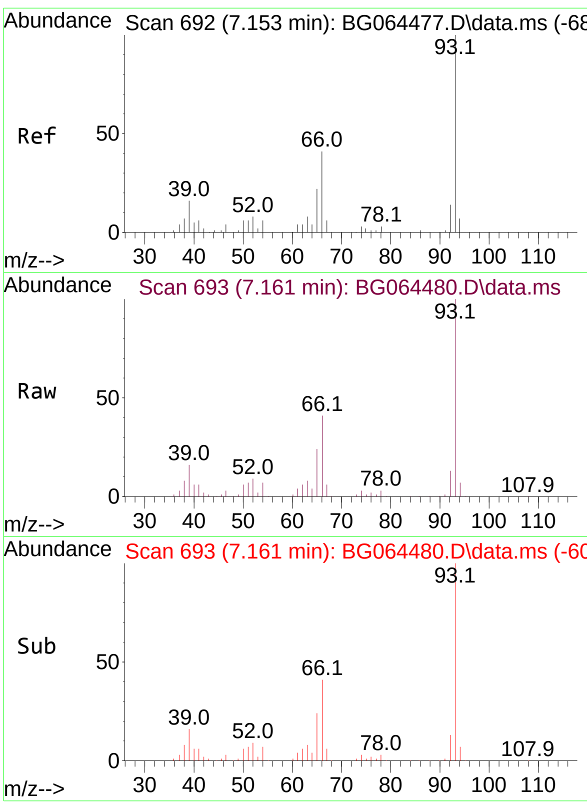
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.8 | 49.8 | 74.8 |
| 63 | 43.9 | 31.3 | 46.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

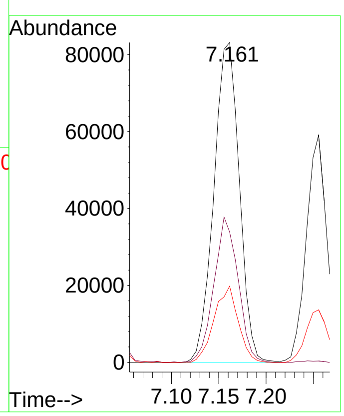


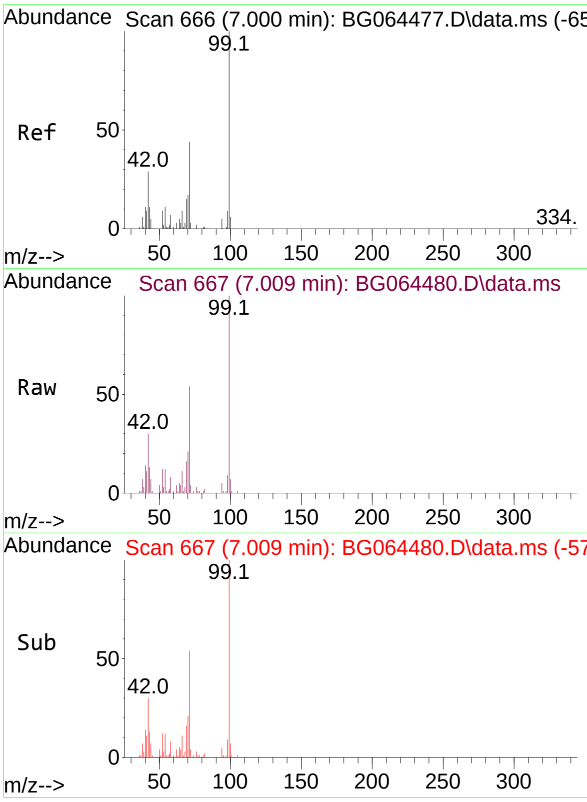




#6
Aniline
Concen: 75.518 ng
RT: 7.161 min Scan# 693
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 93 Resp: 155867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.7 | 33.0 | 49.4 |
| 65 | 23.8 | 17.5 | 26.3 |






#7
Phenol-d6
Concen: 153.254 ng
RT: 7.009 min Scan# 66
Delta R.T. 0.023 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

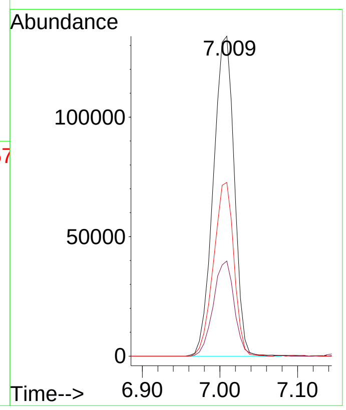
Tgt Ion: 99 Resp: 25076

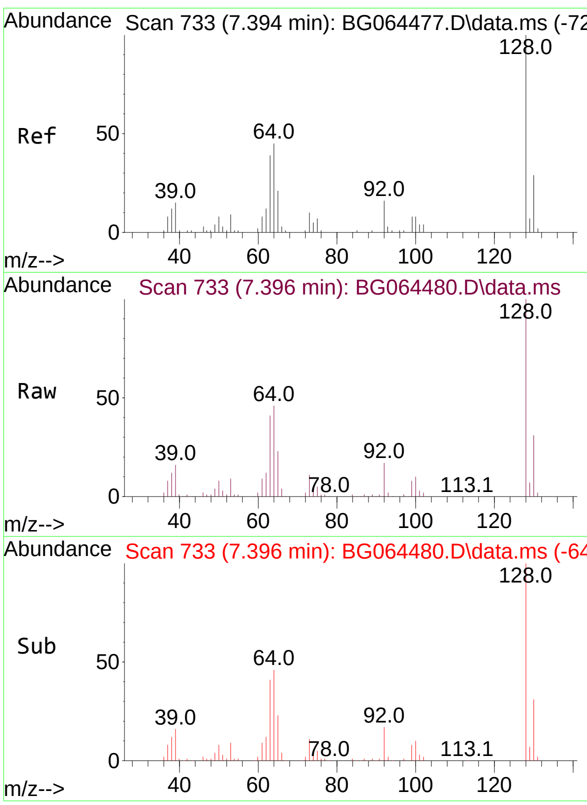
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 29.7 | 22.9 | 34.3 |
| 71 | 54.3 | 35.4 | 53.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

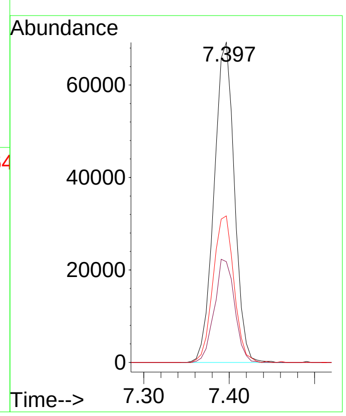


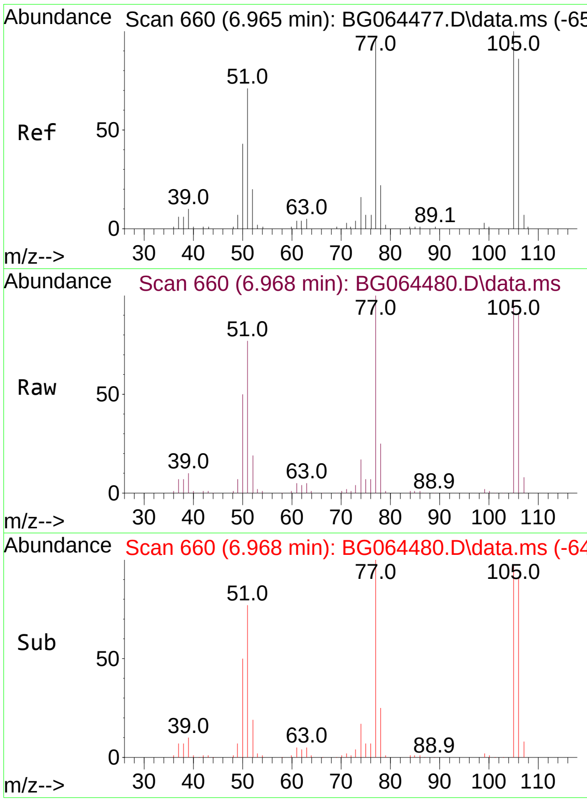




#8
2-Chlorophenol
Concen: 76.619 ng
RT: 7.396 min Scan# 733
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:128 Resp: 114558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.5 | 9.2 | 49.2 |
| 64 | 45.8 | 25.5 | 65.5 |

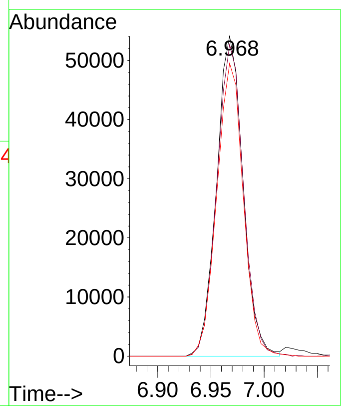





#9
Benzaldehyde
Concen: 64.370 ng
RT: 6.968 min Scan# 6
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 77 Resp: 9349

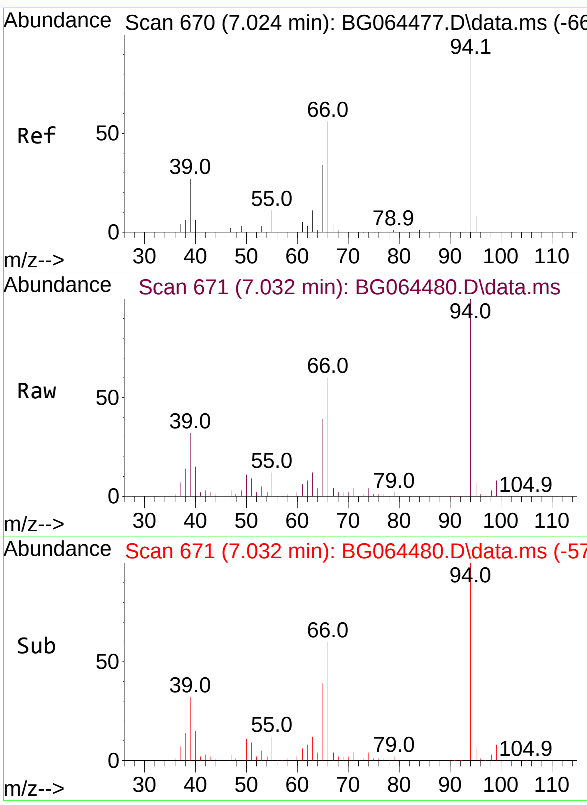
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 97.4 | 83.7 | 123.7 |
| 106 | 91.5 | 69.4 | 109.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

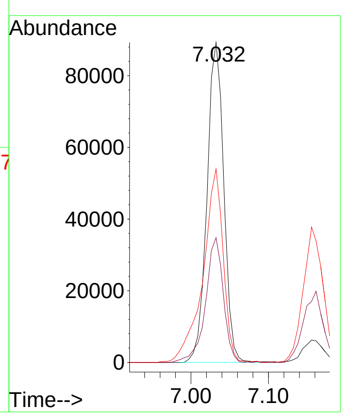
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



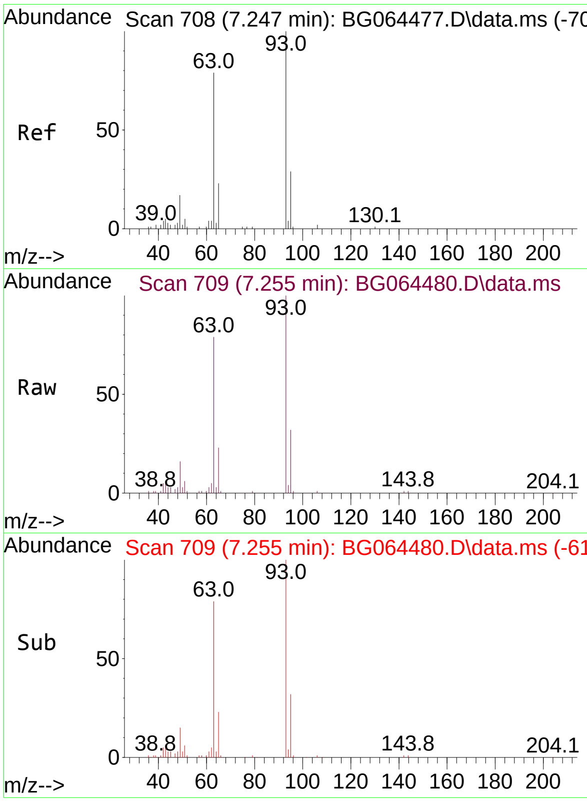

#10
Phenol
Concen: 78.138 ng
RT: 7.032 min Scan# 671
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 94 Resp: 134875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 39.0 | 14.8 | 54.8 |
| 66 | 60.5 | 41.4 | 81.4 |



ICAL Form




#11
bis(2-Chloroethyl)ether
Concen: 76.500 ng
RT: 7.255 min Scan# 70
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 93 Resp: 89425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 79.2 | 59.5 | 99.5 |
| 95 | 31.7 | 8.8 | 48.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

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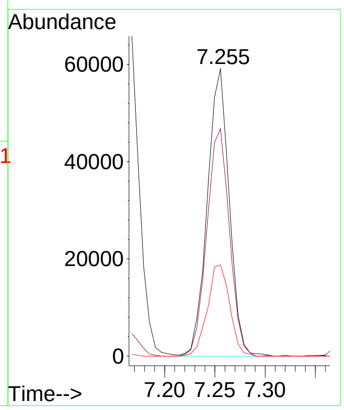
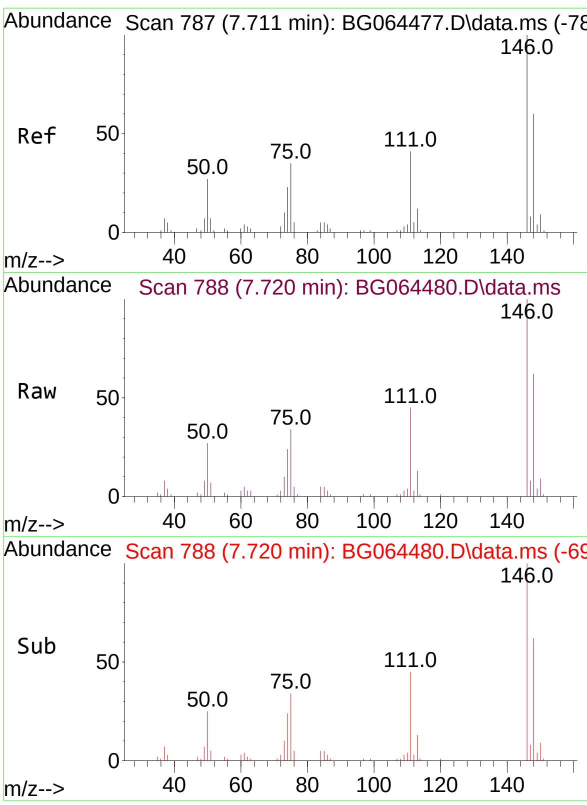
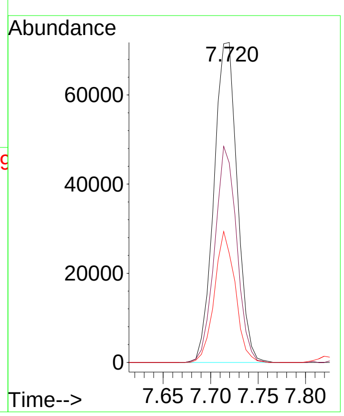


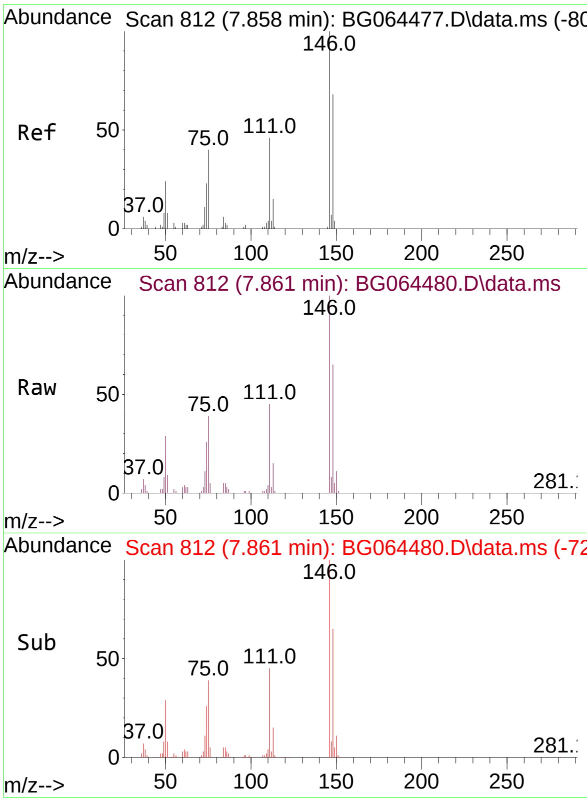




#12
1,3-Dichlorobenzene
Concen: 75.107 ng
RT: 7.720 min Scan# 788
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:146 Resp: 122844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.3 | 48.4 | 72.6 |
| 75 | 34.0 | 28.3 | 42.5 |

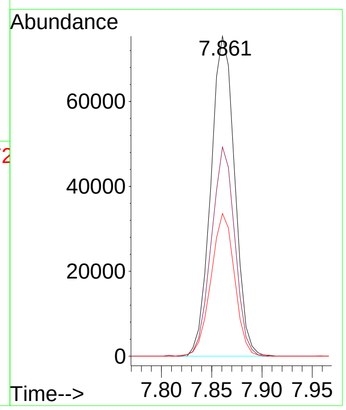





#13
1,4-Dichlorobenzene
Concen: 75.917 ng
RT: 7.861 min Scan# 81
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:146 Resp: 124619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.4 | 54.4 | 81.6 |
| 111 | 44.6 | 36.5 | 54.7 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

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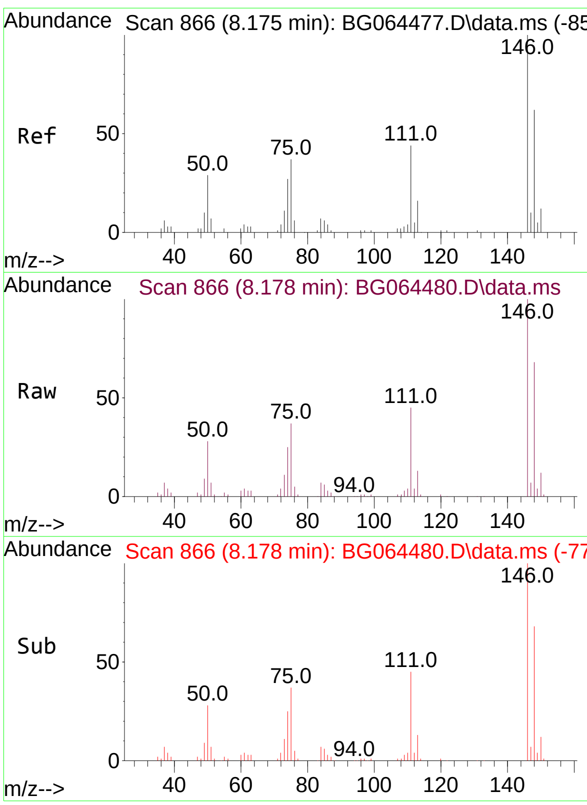
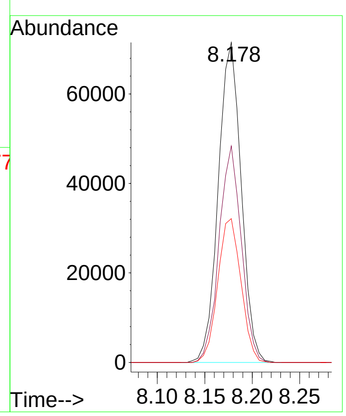


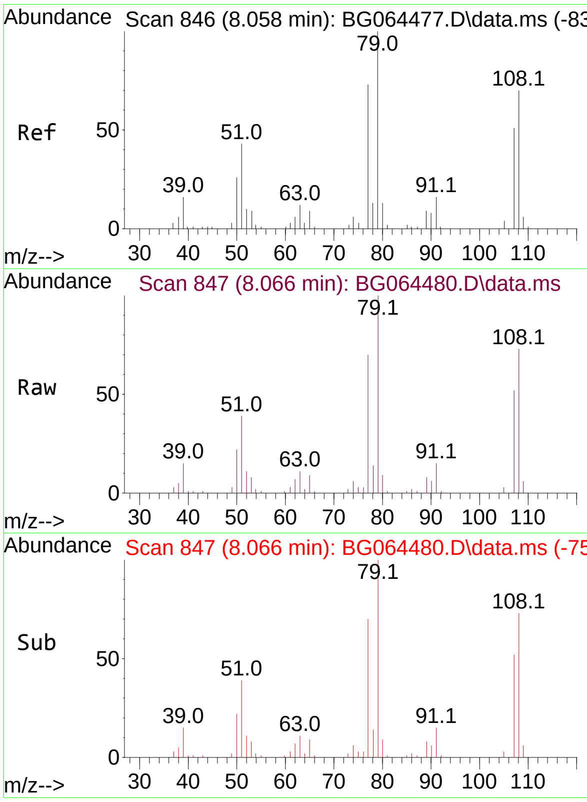

#14
1,2-Dichlorobenzene
Concen: 74.398 ng
RT: 8.178 min Scan# 866
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:146 Resp: 120364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 67.6 | 50.0 | 75.0 |
| 111 | 44.9 | 35.0 | 52.4 |



ICAL Form




#15
Benzyl Alcohol
Concen:   78.483 ng
RT:   8.066 min   Scan# 84
Delta R.T.   0.011 min
Lab File:   BG064480.D
Acq:   2 Oct 2025   14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion: 79 Resp:   118265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 72.7 | 56.4 | 84.6 |
| 77 | 70.1 | 58.3 | 87.5 |

**Manual Integrations**
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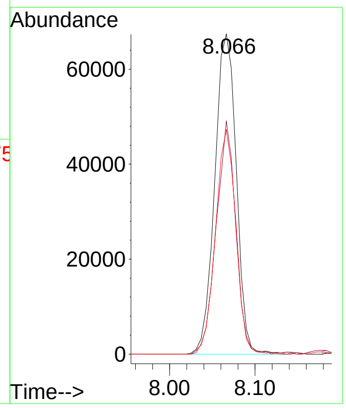
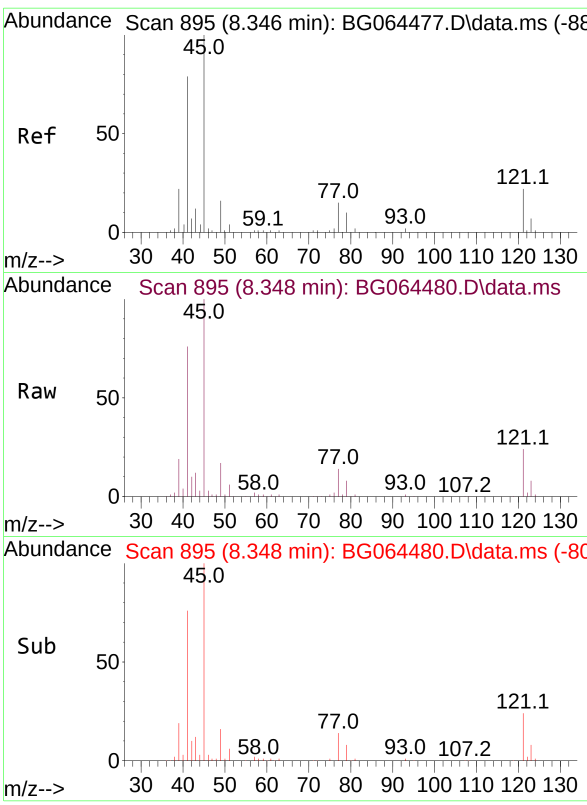
Supervised By :Jagrut Upadhyay   10/03/2025

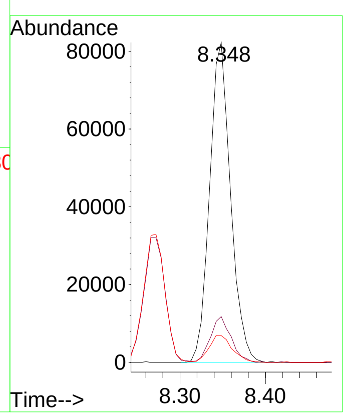


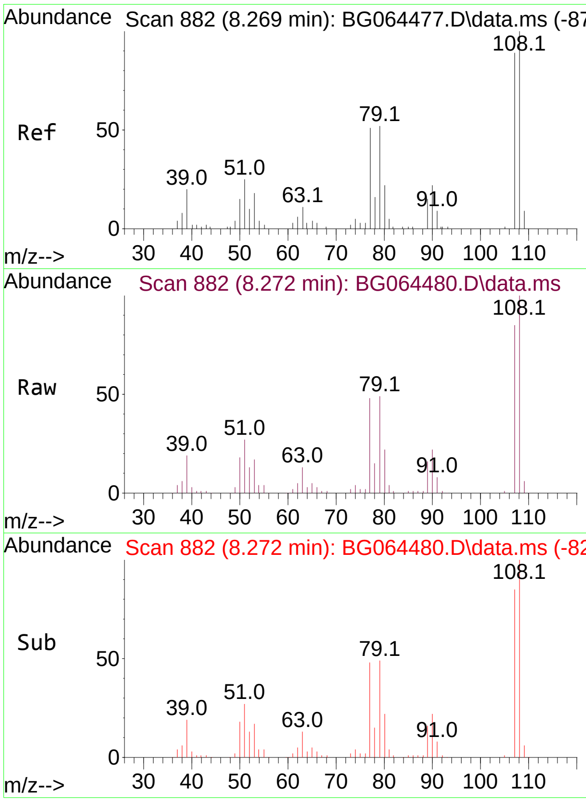

#16
2,2'-oxybis(1-Chloropropane)
Concen:   74.507 ng
RT:   8.348 min   Scan# 895
Delta R.T.   0.011 min
Lab File:   BG064480.D
Acq:   2 Oct 2025   14:16

Tgt Ion: 45 Resp:   140388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.3 | 0.0 | 35.6 |
| 79 | 8.4 | 0.0 | 30.7 |



ICAL Form




#17
2-Methylphenol
Concen: 77.657 ng
RT: 8.272 min Scan# 88
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:107 Resp: 97064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 118.1 | 90.3 | 135.5 |
| 77 | 56.3 | 46.0 | 69.0 |
| 79 | 57.8 | 46.6 | 69.8 |

**Manual Integrations**
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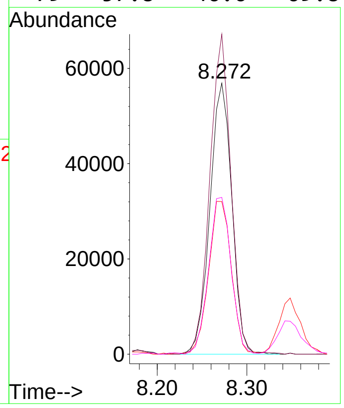
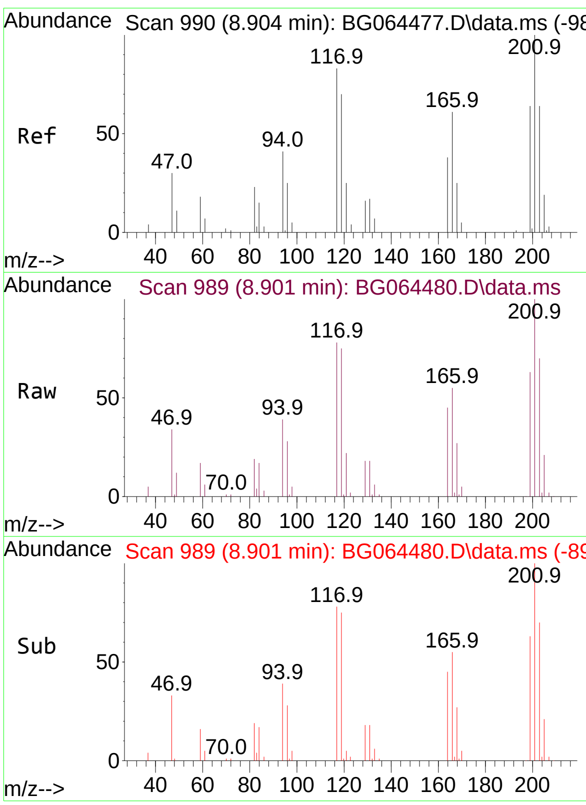
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

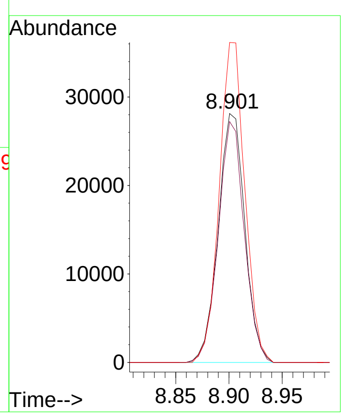



#18
Hexachloroethane
Concen: 75.666 ng
RT: 8.901 min Scan# 989
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:117 Resp: 49027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.7 | 67.4 | 101.0 |
| 201 | 128.6 | 95.9 | 143.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

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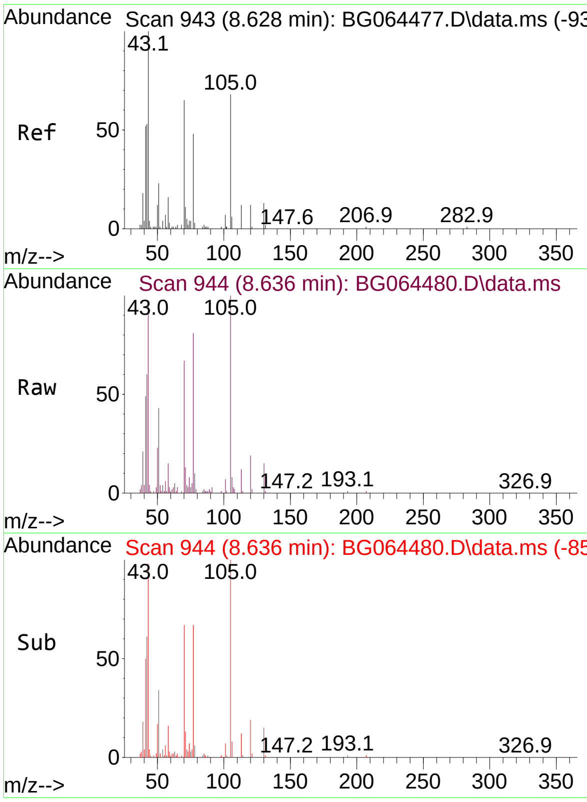
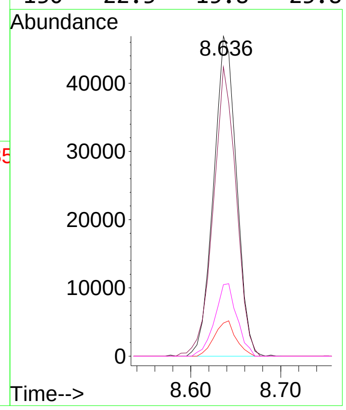
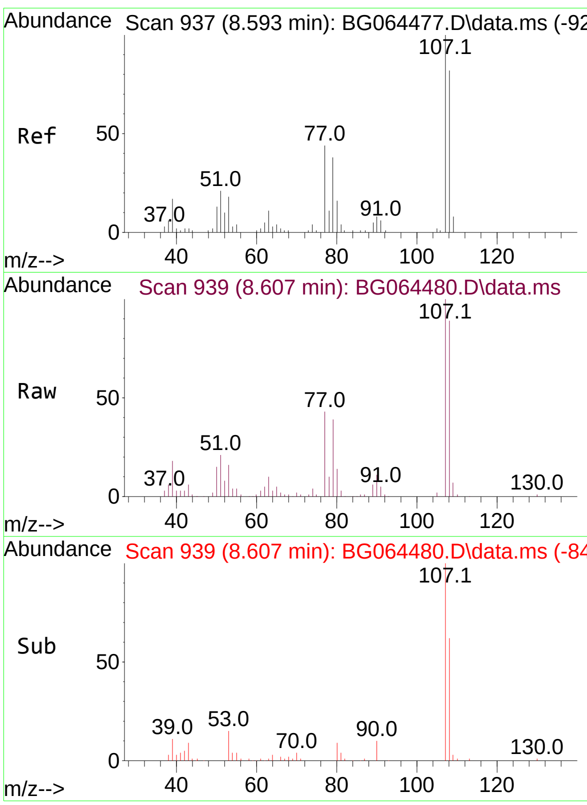



#19
n-Nitroso-di-n-propylamine
Concen: 76.290 ng
RT: 8.636 min Scan# 94
Delta R.T. 0.023 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 70 Resp: 8348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 90.4 | 64.9 | 97.3 |
| 101 | 10.3 | 8.7 | 13.1 |
| 130 | 22.3 | 15.8 | 23.8 |

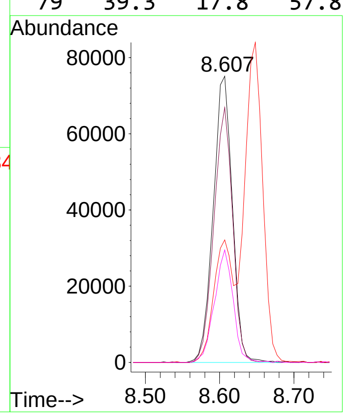



#20
3+4-Methylphenols
Concen: 77.191 ng
RT: 8.607 min Scan# 939
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:107 Resp: 134638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.1 | 62.1 | 102.1 |
| 77 | 42.8 | 23.5 | 63.5 |
| 79 | 39.3 | 17.8 | 57.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

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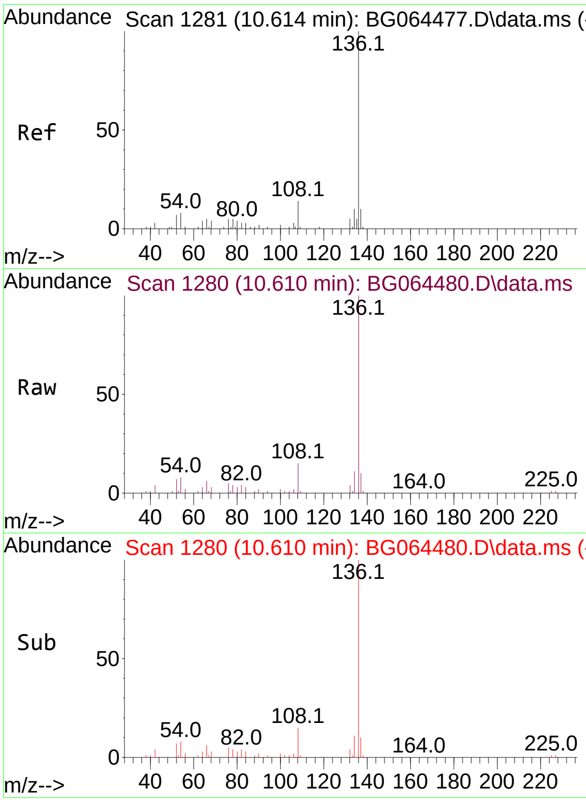
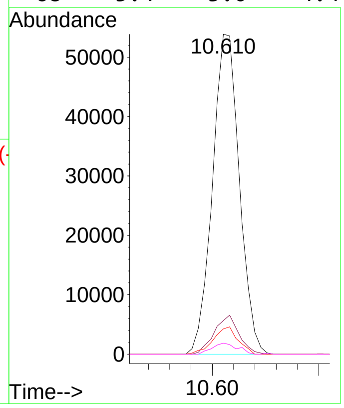
Supervised By :Jagrut Upadhyay 10/03/2025

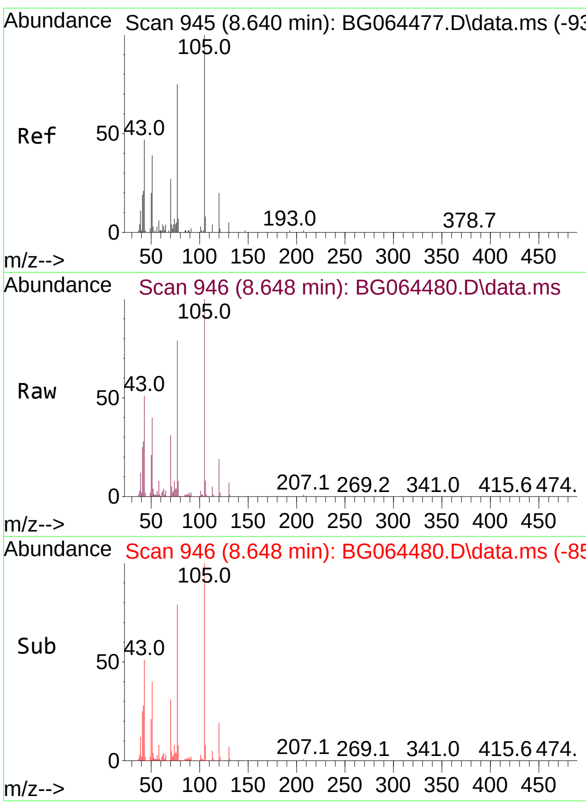



#21
Naphthalene-d8
Concen:   20.000 ng
RT:  10.610 min  Scan# 1
Delta R.T.  0.005 min
Lab File:   BG064480.D
Acq:  2 Oct 2025  14:16

Tgt Ion:136 Resp:   9456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.3 | 12.5 |
| 54 | 7.9 | 6.2 | 9.4 |
| 68 | 3.4 | 3.0 | 4.4 |

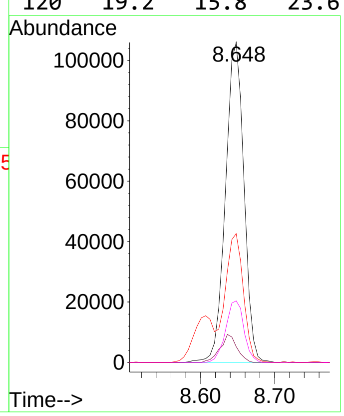



#22
Acetophenone
Concen:   80.227 ng
RT:   8.648 min  Scan# 946
Delta R.T.  0.017 min
Lab File:   BG064480.D
Acq:  2 Oct 2025  14:16

Tgt Ion:105 Resp:  183701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 4.9 | 2.8 | 4.2# |
| 51 | 40.2 | 33.0 | 49.4 |
| 120 | 19.2 | 15.8 | 23.6 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

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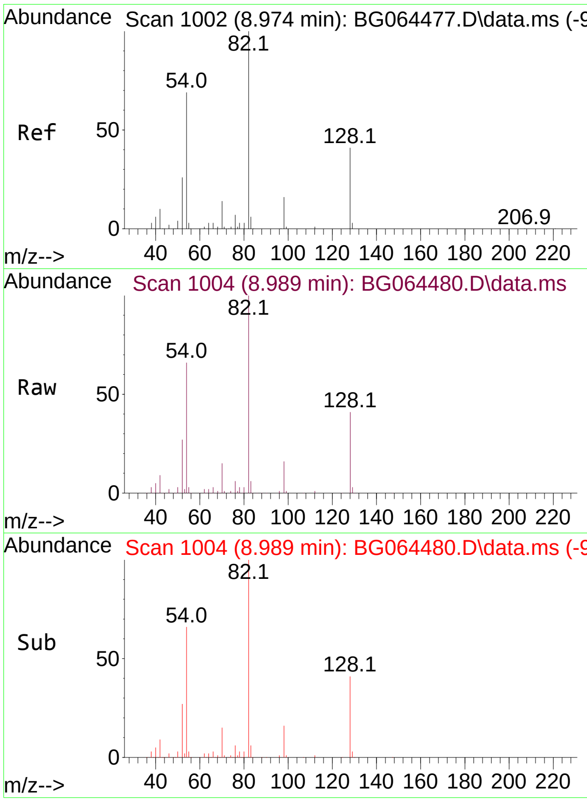
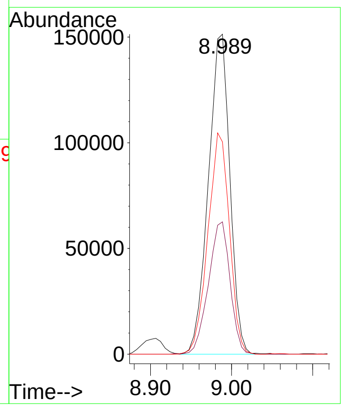
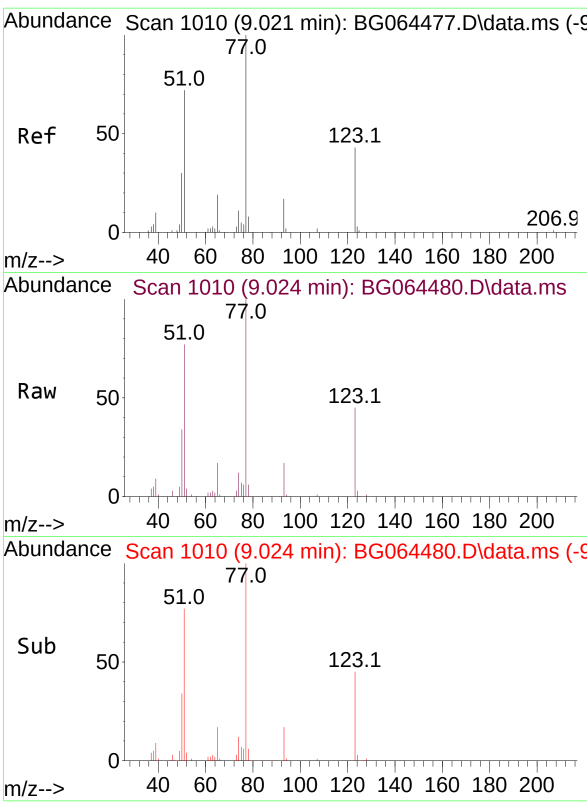



#23
Nitrobenzene-d5
Concen: 158.678 ng
RT: 8.989 min Scan# 10
Delta R.T. 0.023 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 82 Resp: 27907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 33.1 | 49.7 |
| 54 | 66.3 | 55.4 | 83.2 |

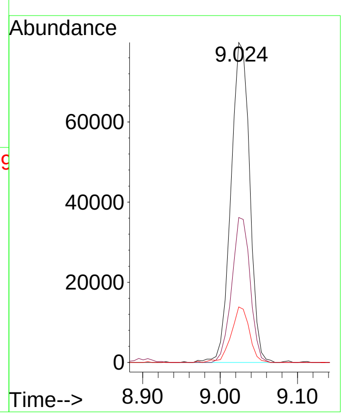


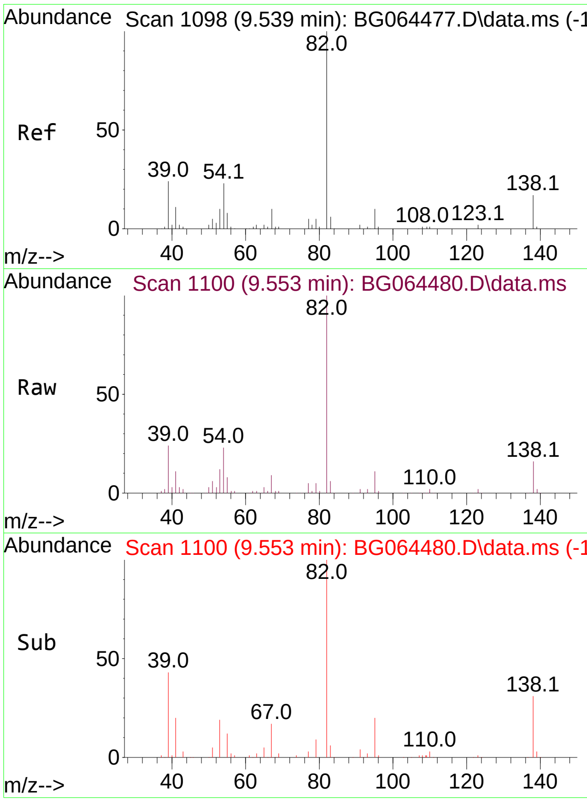




#24
Nitrobenzene
Concen: 77.123 ng
RT: 9.024 min Scan# 1010
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 77 Resp: 135264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 45.3 | 34.4 | 51.6 |
| 65 | 17.3 | 14.8 | 22.2 |





#25
Isophorone
Concen: 77.188 ng
RT: 9.553 min Scan# 11
Delta R.T. 0.023 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion: 82 Resp: 245935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 10.7 | 7.8 | 11.8 |
| 138 | 16.5 | 13.8 | 20.6 |

**Manual Integrations APPROVED**

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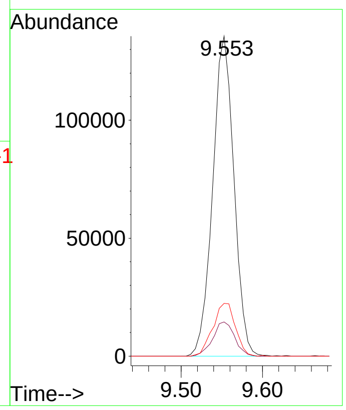
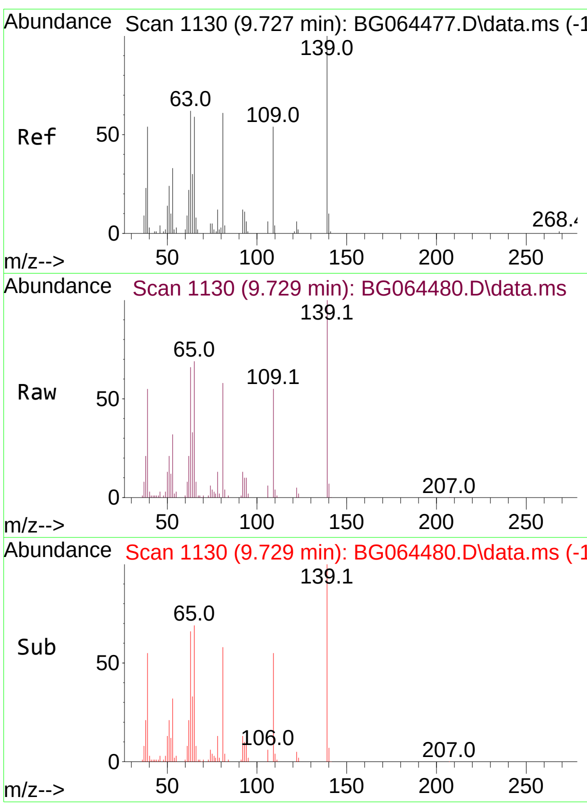
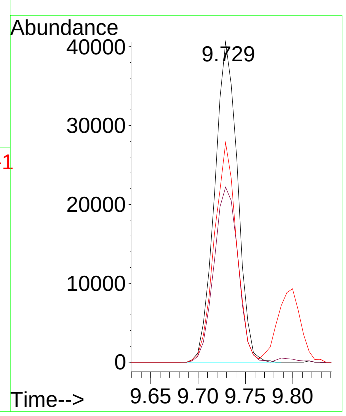


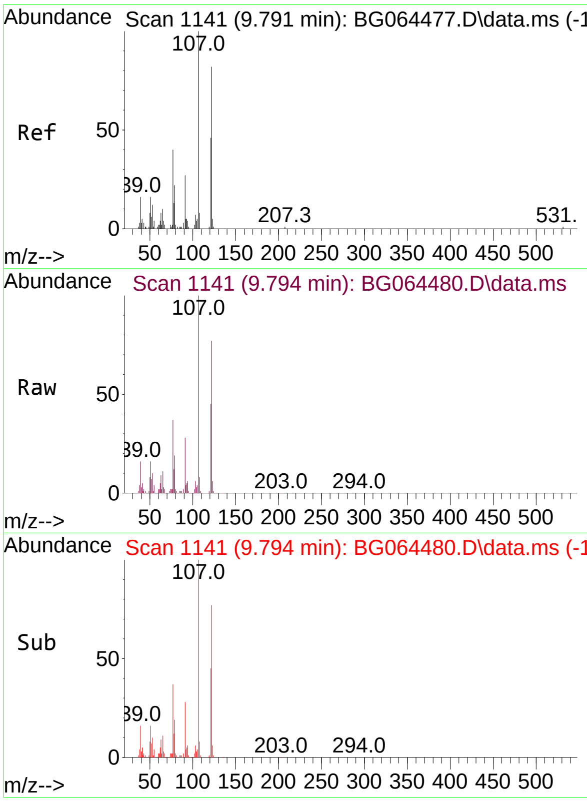


#26
2-Nitrophenol
Concen: 78.281 ng
RT: 9.729 min Scan# 1130
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:139 Resp: 68332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 54.7 | 43.0 | 64.6 |
| 65 | 68.6 | 47.4 | 71.2 |






#27
2,4-Dimethylphenol
Concen: 79.619 ng
RT: 9.794 min Scan# 11
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:122 Resp: 106151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 129.4 | 98.3 | 147.5 |
| 121 | 58.2 | 44.7 | 67.1 |

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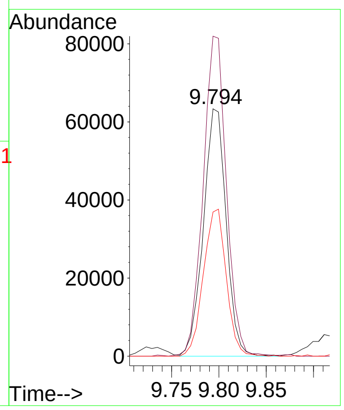
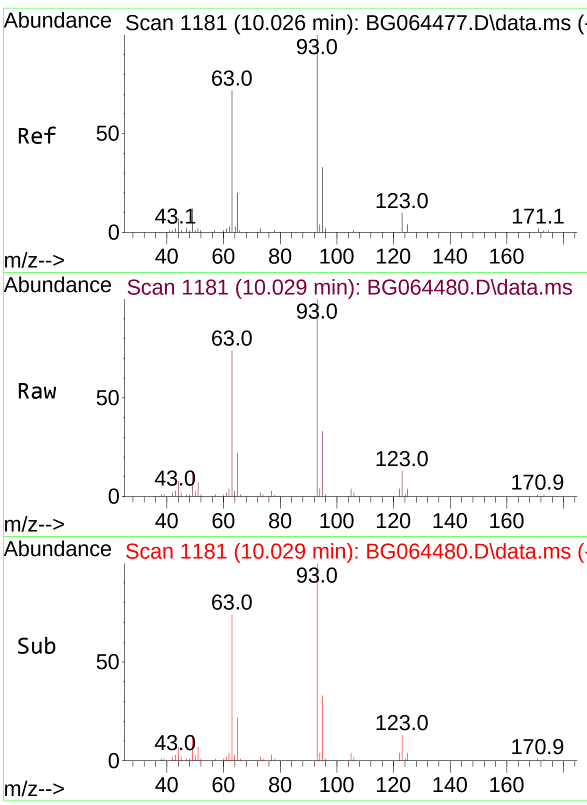
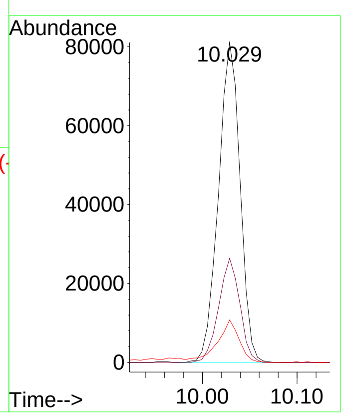


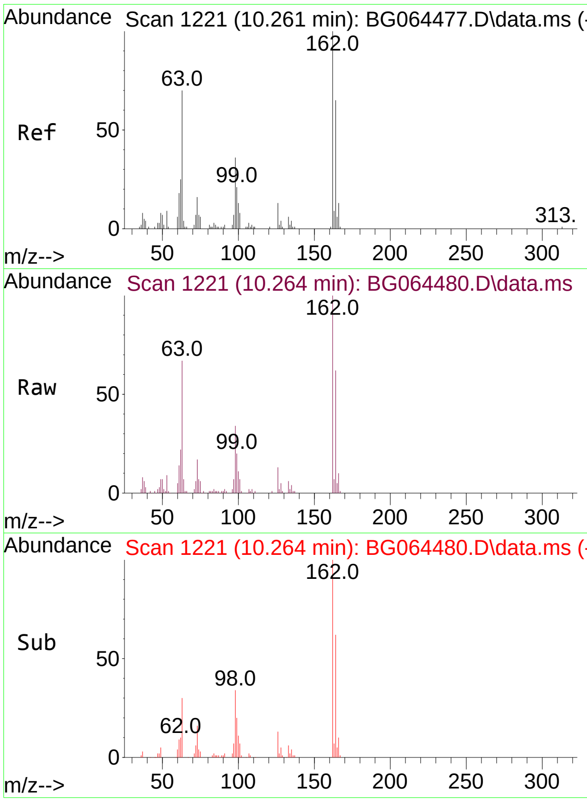




#28
bis(2-Chloroethoxy)methane
Concen: 79.313 ng
RT: 10.029 min Scan# 1181
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 93 Resp: 128813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.6 | 26.5 | 39.7 |
| 123 | 13.3 | 8.9 | 13.3 |






#29
2,4-Dichlorophenol
Concen: 81.436 ng
RT: 10.264 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

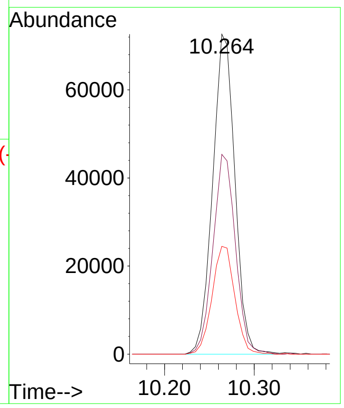
Tgt Ion:162 Resp: 12555

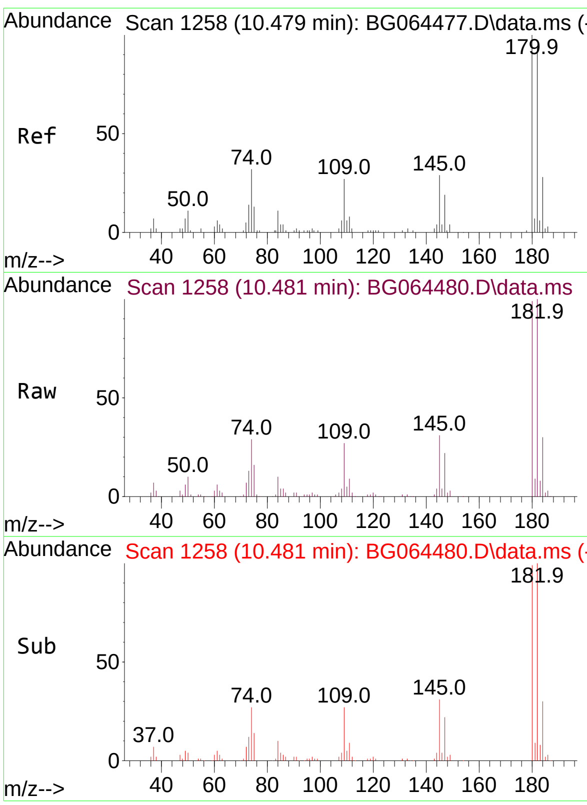
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 62.5 | 45.4 | 85.4 |
| 98 | 33.7 | 16.4 | 56.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

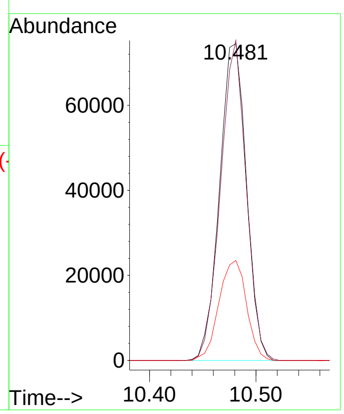



#30
1,2,4-Trichlorobenzene
Concen: 78.115 ng
RT: 10.481 min Scan# 1258
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:180 Resp: 131315

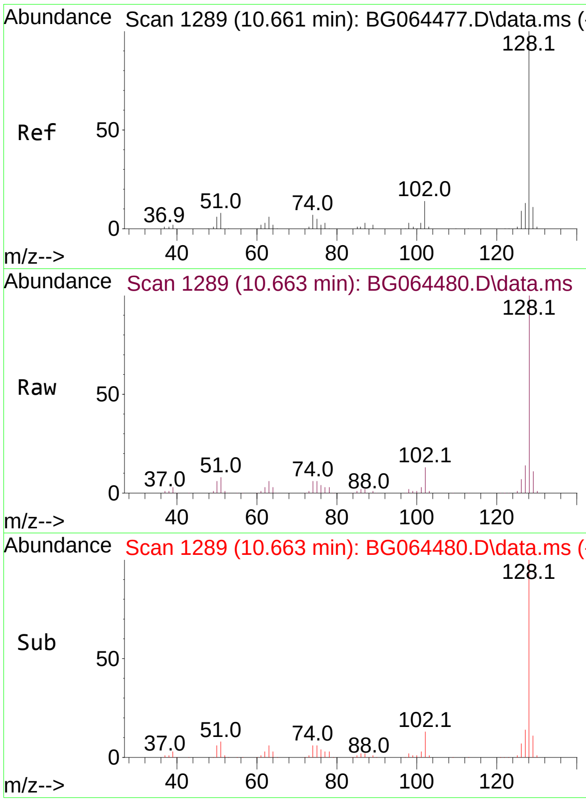
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 101.0 | 75.4 | 113.2 |
| 145 | 31.5 | 23.2 | 34.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

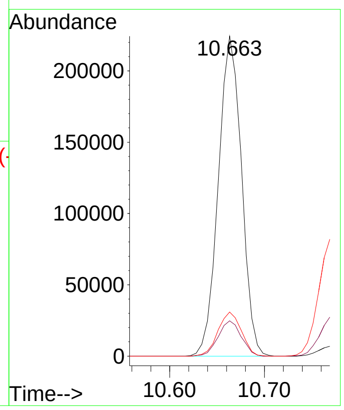
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

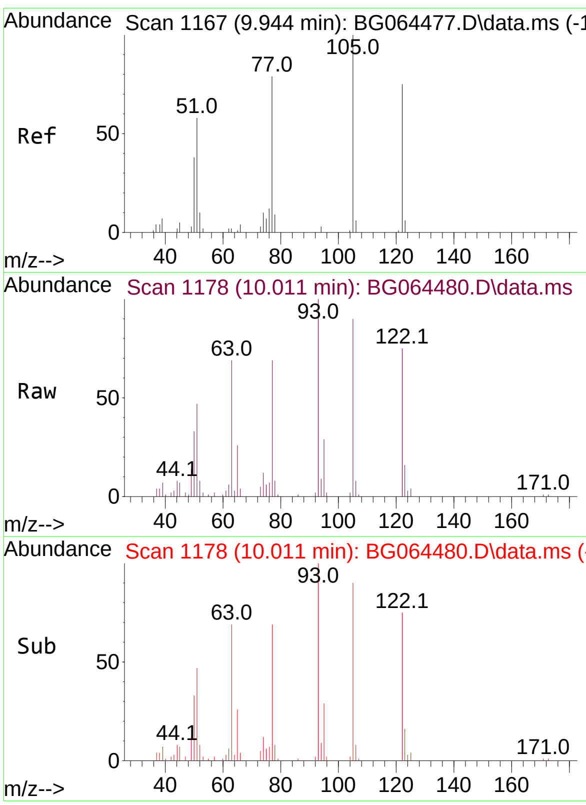



#31
Naphthalene
Concen: 78.560 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:128 Resp: 38257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.7 | 13.1 |
| 127 | 13.8 | 10.2 | 15.2 |

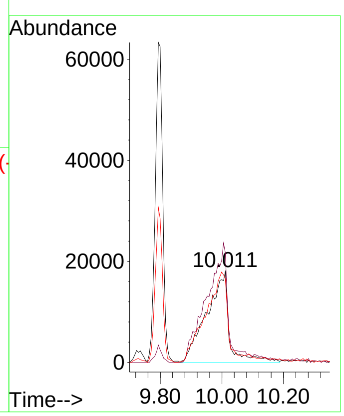



#32
Benzoic acid
Concen: 89.680 ng m
RT: 10.011 min Scan# 1178
Delta R.T. 0.122 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:122 Resp: 91798

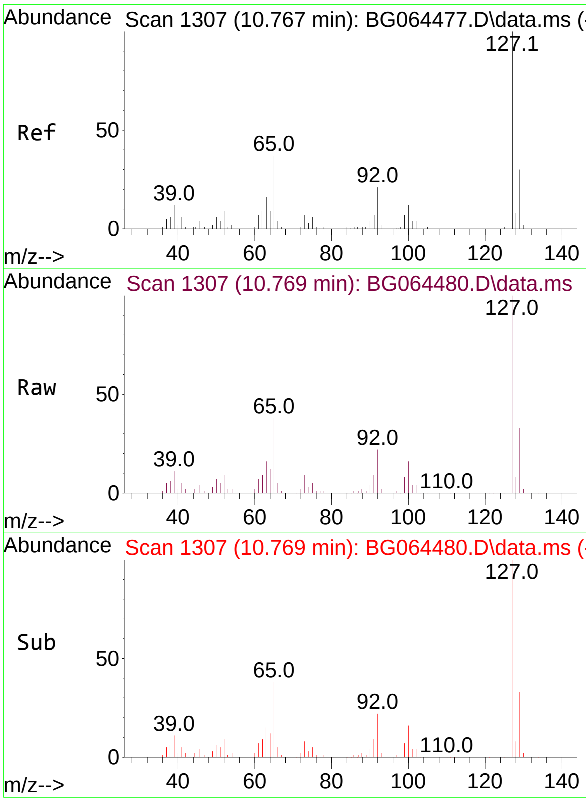
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 120.9 | 113.9 | 153.9 |
| 77 | 92.4 | 86.1 | 126.1 |



**Instrument :** BNA_G
**ClientSampleId :** SSTDICC080

**Manual Integrations APPROVED**

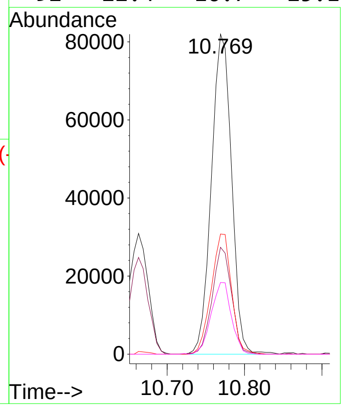
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

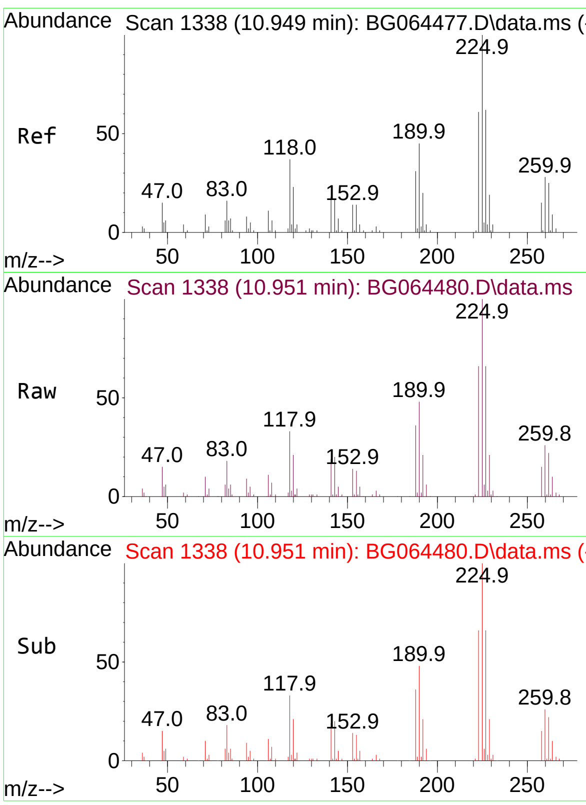



#33
4-Chloroaniline
Concen: 79.425 ng
RT: 10.769 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:127 Resp: 14842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 33.4 | 24.2 | 36.4 |
| 65 | 37.5 | 29.6 | 44.4 |
| 92 | 22.4 | 16.7 | 25.1 |

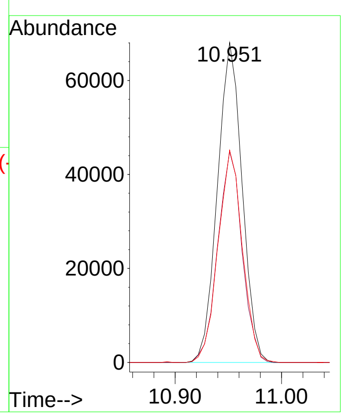


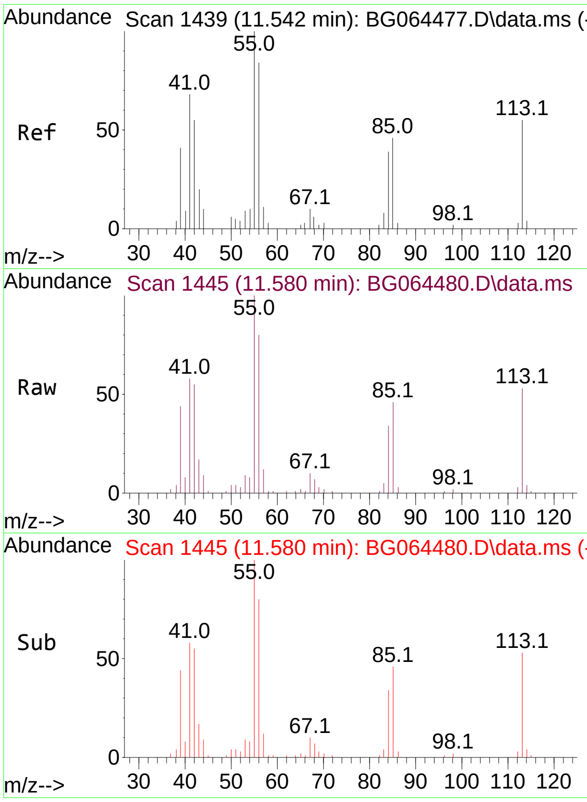




#34
Hexachlorobutadiene
Concen: 76.374 ng
RT: 10.951 min Scan# 1338
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:225 Resp: 109953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.9 | 49.0 | 73.6 |
| 227 | 66.3 | 49.9 | 74.9 |






#35
Caprolactam
Concen:   76.417 ng
RT:  11.580 min  Scan# 14
Delta R.T.  0.070 min
Lab File:   BG064480.D
Acq:  2 Oct 2025  14:16

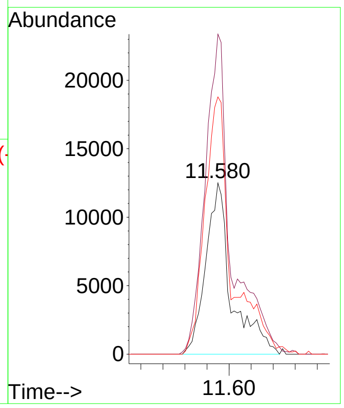
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

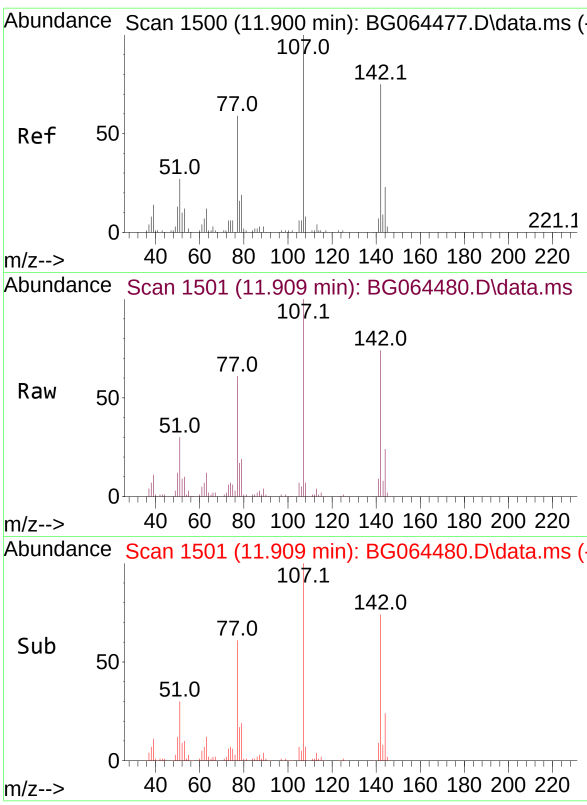
Tgt Ion:113 Resp:   40333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 187.1 | 162.0 | 202.0 |
| 56 | 150.3 | 134.6 | 174.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli  10/03/2025
Supervised By :Jagrut Upadhyay  10/03/2025

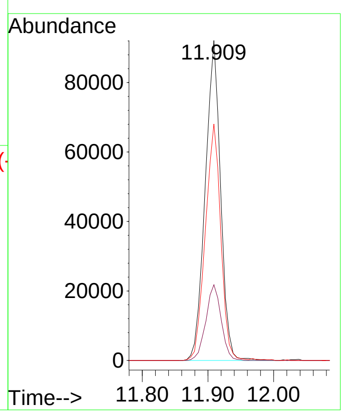


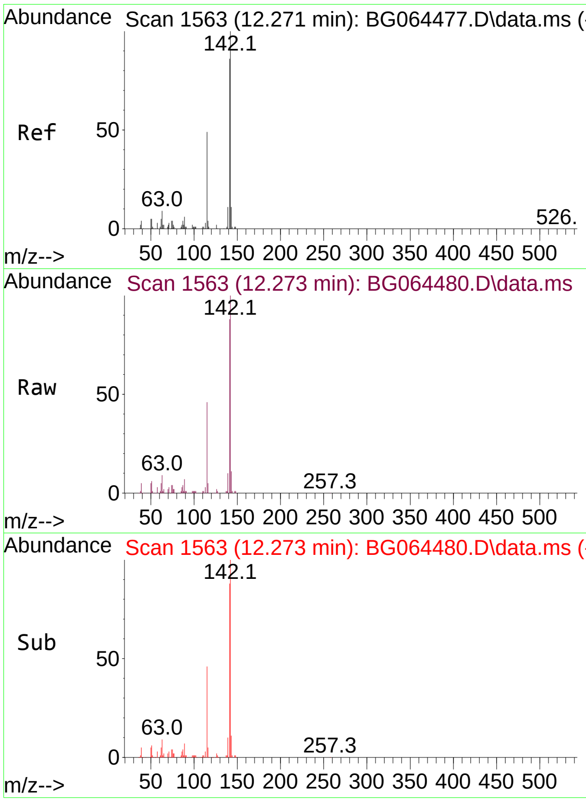

#36
4-Chloro-3-methylphenol
Concen:   79.618 ng
RT:  11.909 min  Scan# 1501
Delta R.T.  0.017 min
Lab File:   BG064480.D
Acq:  2 Oct 2025  14:16

Tgt Ion:107 Resp:  149274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.6 | 18.7 | 28.1 |
| 142 | 73.9 | 60.2 | 90.2 |



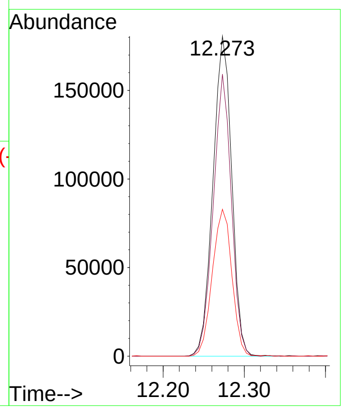
ICAL Form




#37
2-Methylnaphthalene
Concen: 77.931 ng
RT: 12.273 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:142 Resp: 29131

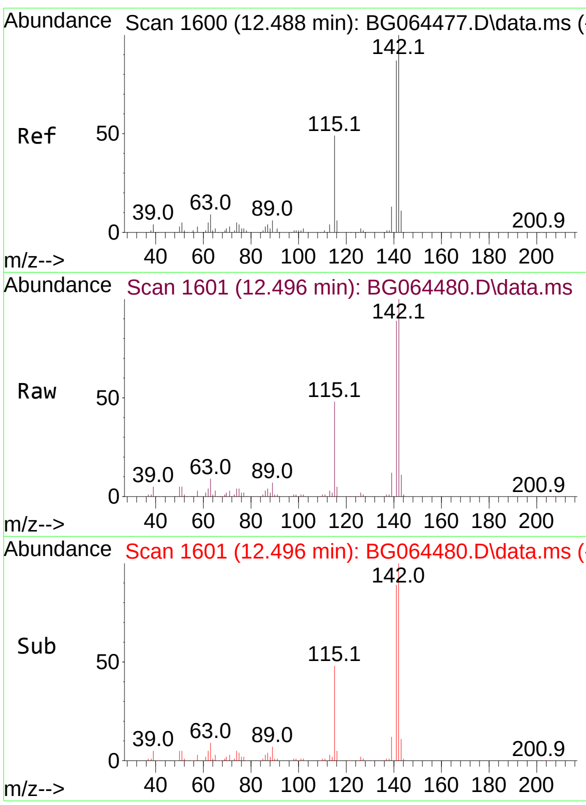
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.1 | 68.7 | 103.1 |
| 115 | 45.9 | 39.3 | 58.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

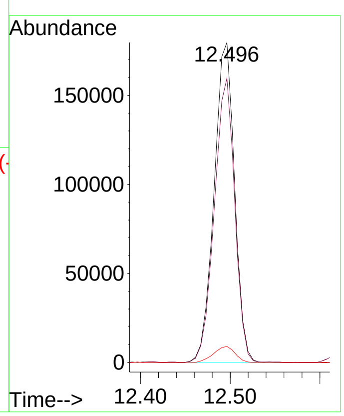
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

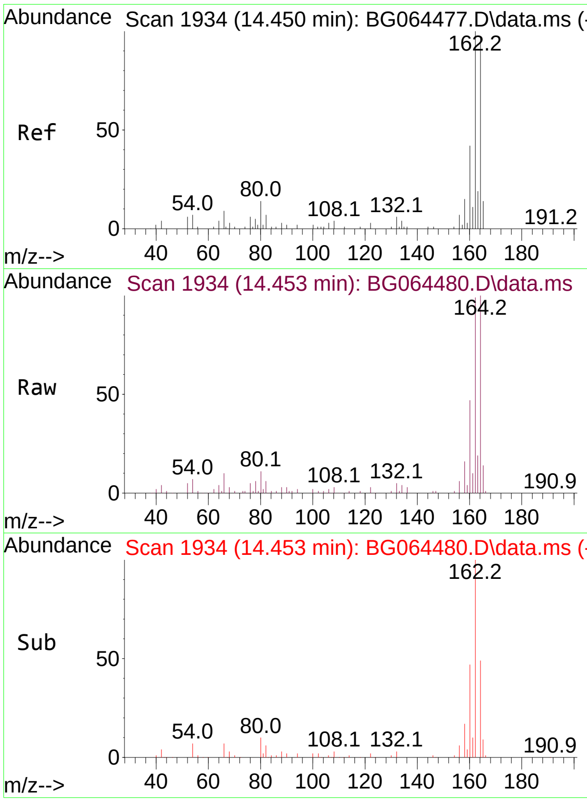



#38
1-Methylnaphthalene
Concen: 76.924 ng
RT: 12.496 min Scan# 1601
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:142 Resp: 286731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 69.8 | 104.8 |
| 116 | 5.0 | 4.6 | 6.8 |






#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.453 min Scan# 19
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

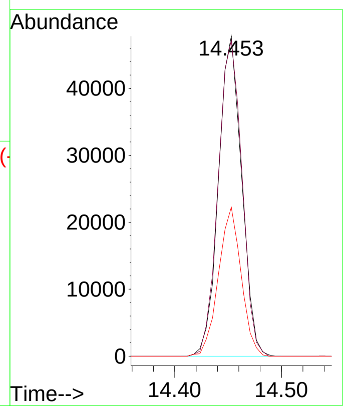
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

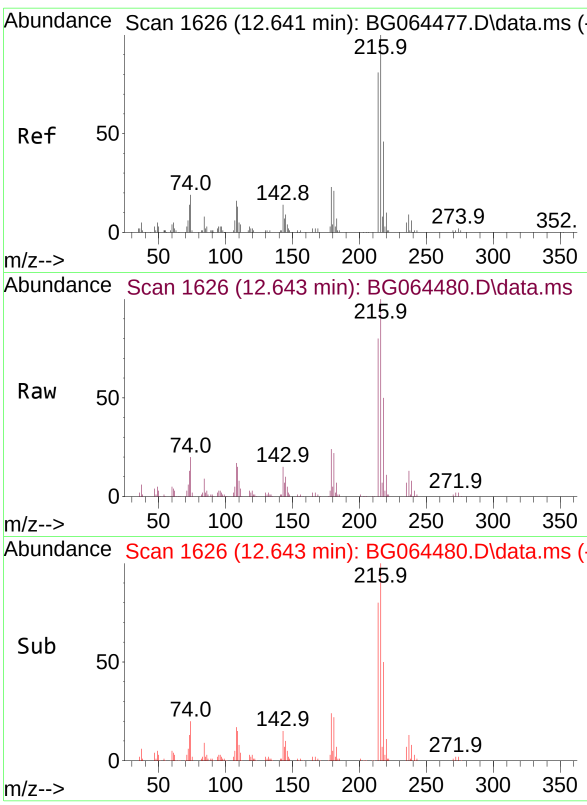
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:164 Resp: 72073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.7 | 82.2 | 123.2 |
| 160 | 46.5 | 34.3 | 51.5 |

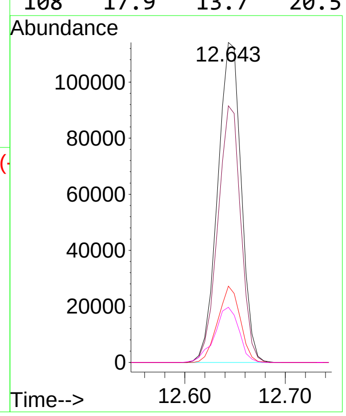



#40
1,2,4,5-Tetrachlorobenzene
Concen: 80.056 ng
RT: 12.643 min Scan# 1626
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

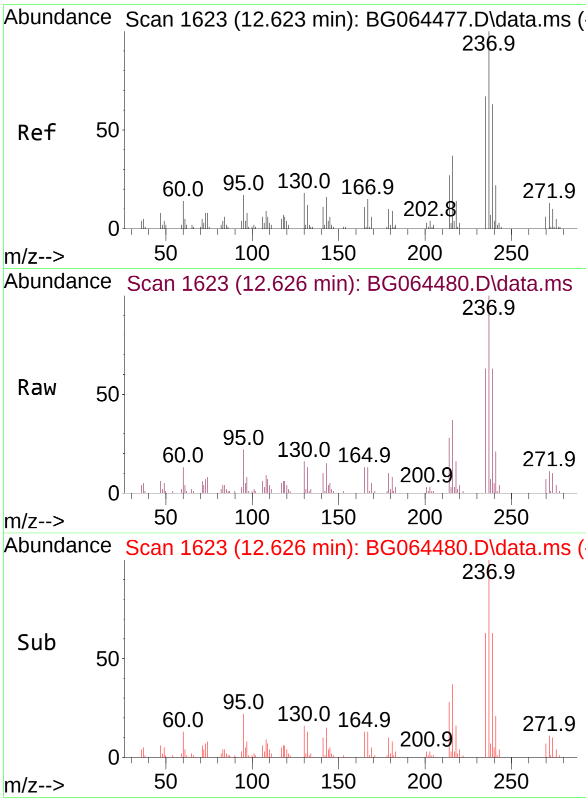
Tgt Ion:216 Resp: 186298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.0 | 62.5 | 93.7 |
| 179 | 22.7 | 17.0 | 25.6 |
| 108 | 17.9 | 13.7 | 20.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

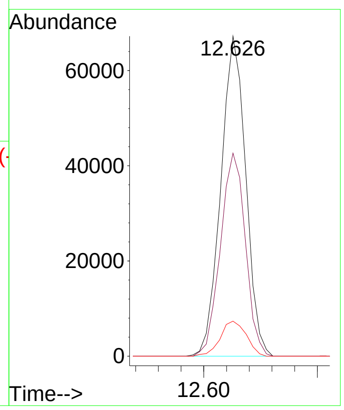
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

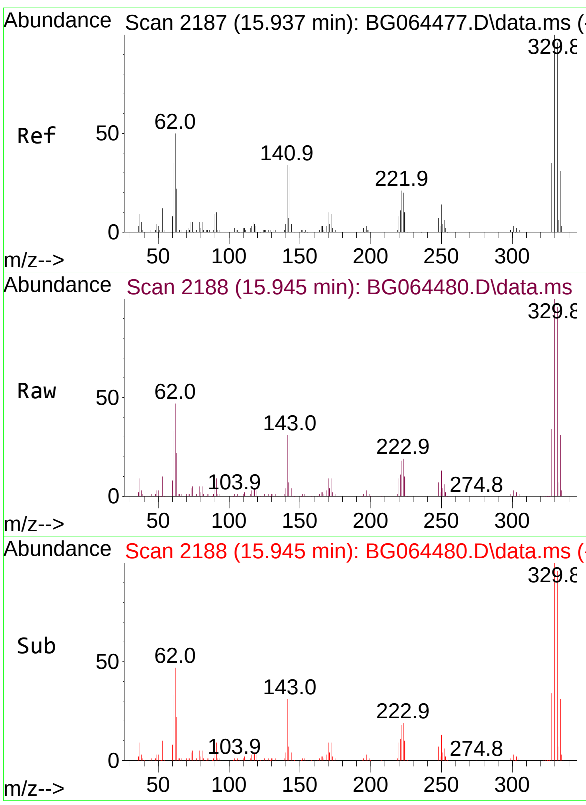



#41
Hexachlorocyclopentadiene
Concen: 84.207 ng
RT: 12.626 min Scan# 16
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:237 Resp: 102505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.4 | 46.9 | 86.9 |
| 272 | 10.9 | 0.0 | 32.6 |

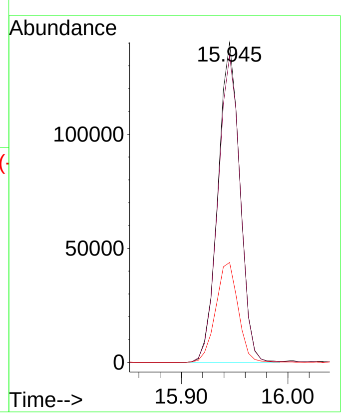



#42
2,4,6-Tribromophenol
Concen: 153.817 ng
RT: 15.945 min Scan# 2188
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:330 Resp: 200950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.5 | 77.4 | 116.0 |
| 141 | 31.9 | 25.8 | 38.6 |



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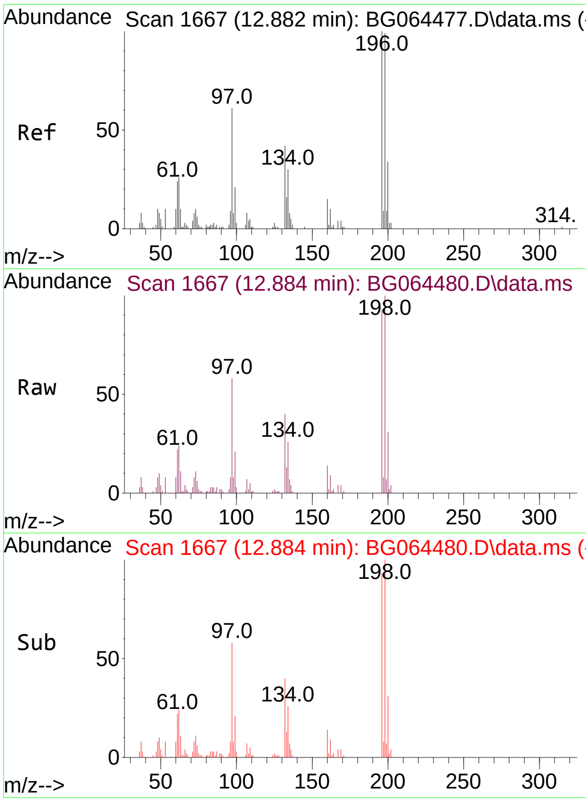


#43
2,4,6-Trichlorophenol
Concen: 80.265 ng
RT: 12.884 min Scan# 16
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:196 Resp: 11940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 107.1 | 79.3 | 118.9 |
| 200 | 33.3 | 27.4 | 41.2 |

**Manual Integrations APPROVED**

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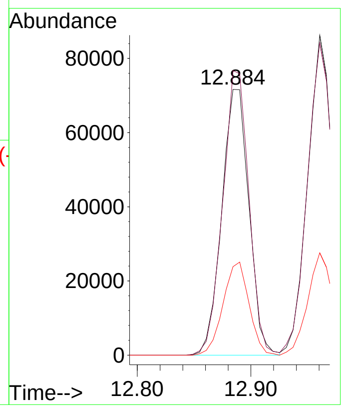
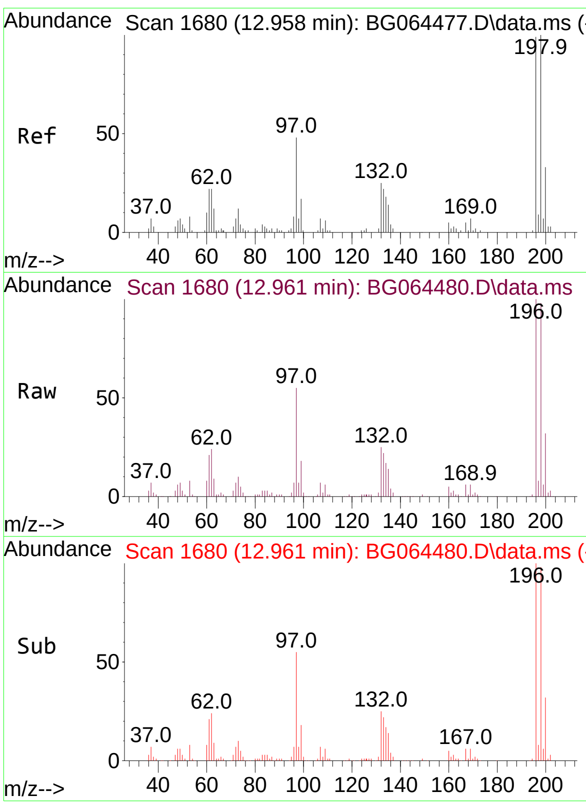
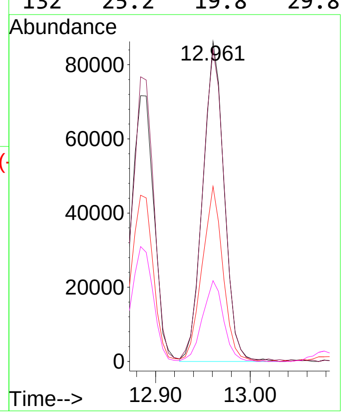


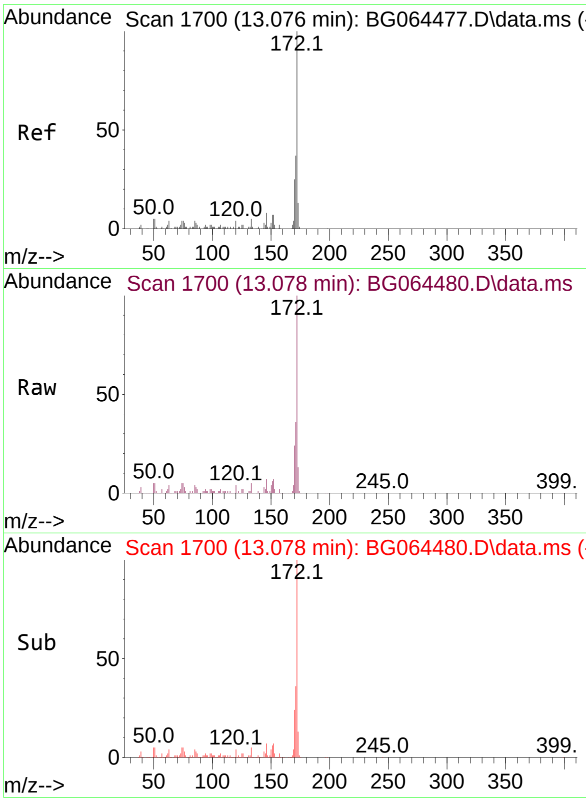




#44
2,4,5-Trichlorophenol
Concen: 81.602 ng
RT: 12.961 min Scan# 1680
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:196 Resp: 135525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 97.6 | 80.3 | 120.5 |
| 97 | 54.8 | 39.4 | 59.0 |
| 132 | 25.2 | 19.8 | 29.8 |





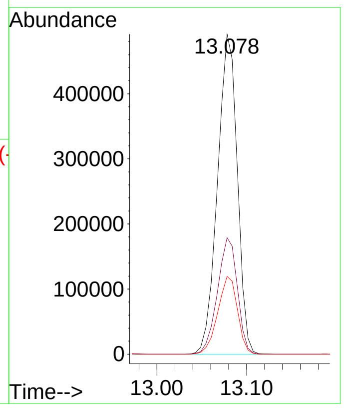

#45
2-Fluorobiphenyl
Concen: 154.518 ng
RT: 13.078 min Scan# 1
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

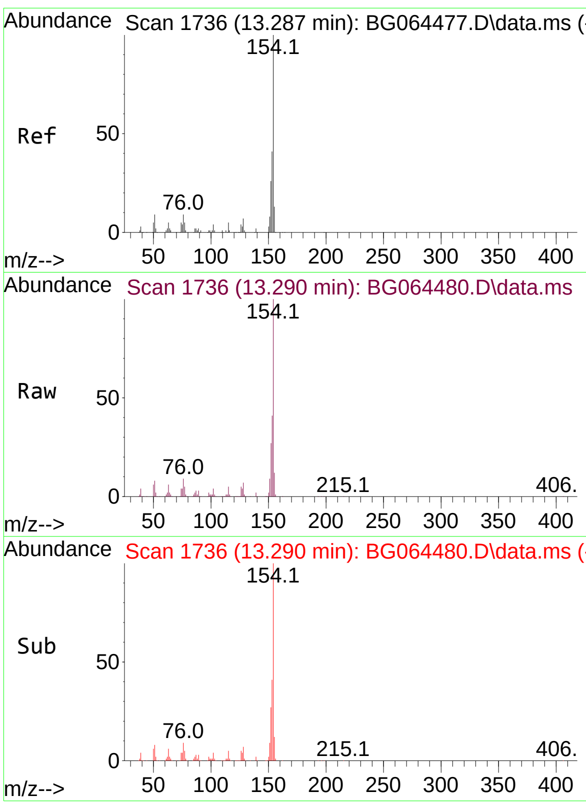
Tgt Ion:172 Resp: 75553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.6 | 44.4 |
| 170 | 24.3 | 20.2 | 30.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

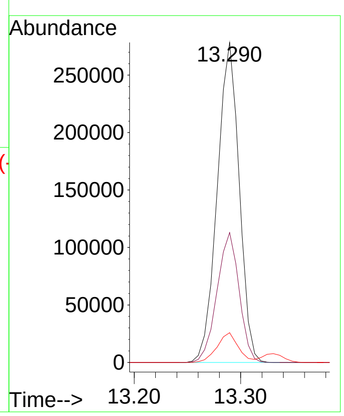



#46
1,1'-Biphenyl
Concen: 77.125 ng
RT: 13.290 min Scan# 1736
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:154 Resp: 399798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.6 | 20.7 | 60.7 |
| 76 | 9.3 | 0.0 | 29.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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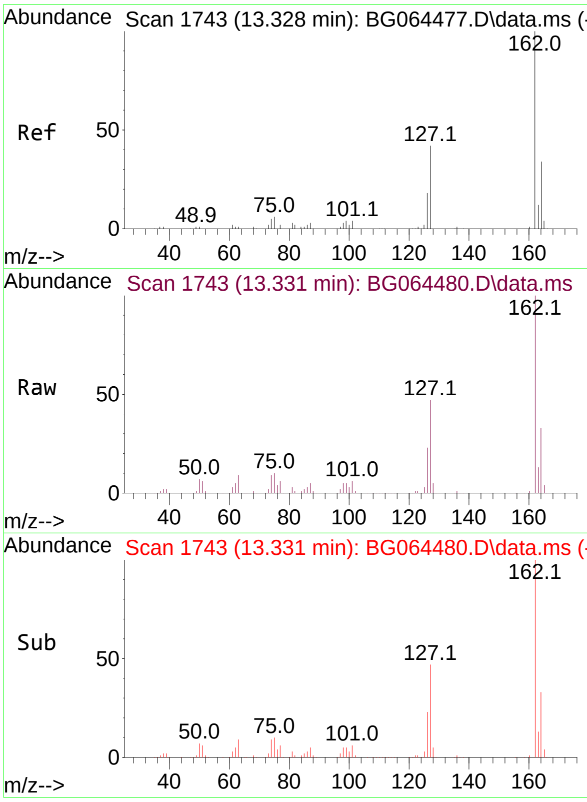
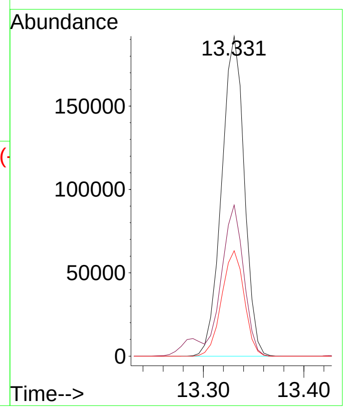
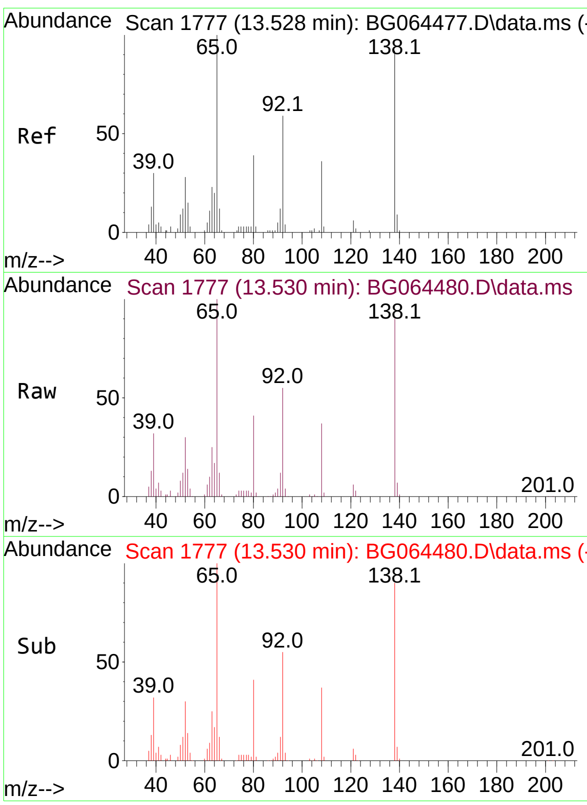



#47
2-Chloronaphthalene
Concen: 77.951 ng
RT: 13.331 min Scan# 1
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:162 Resp: 30169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 47.2 | 35.8 | 53.8 |
| 164 | 32.9 | 27.2 | 40.8 |

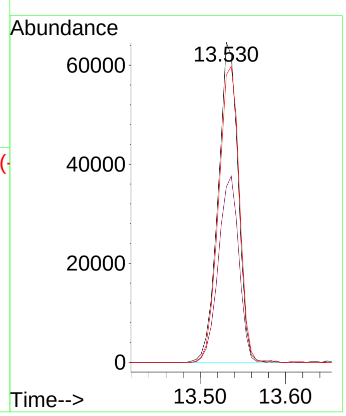



#48
2-Nitroaniline
Concen: 79.555 ng
RT: 13.530 min Scan# 1777
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion: 65 Resp: 105087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 54.8 | 47.0 | 70.6 |
| 138 | 89.8 | 73.5 | 110.3 |



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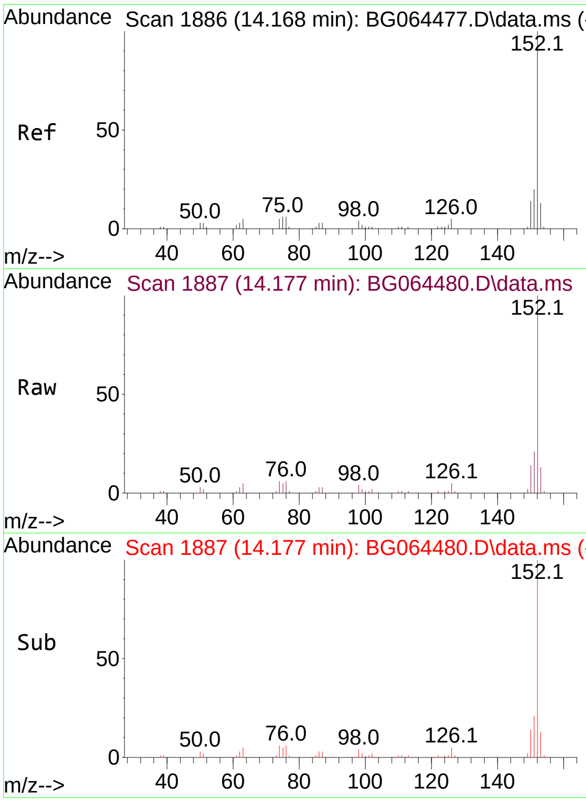


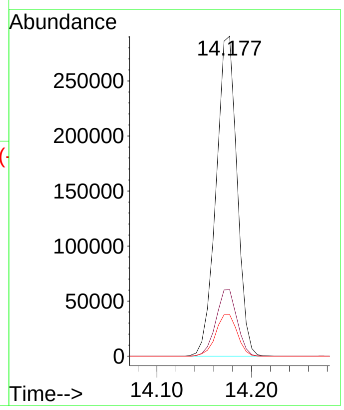

#49
Acenaphthylene
Concen: 77.600 ng
RT: 14.177 min Scan# 18
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

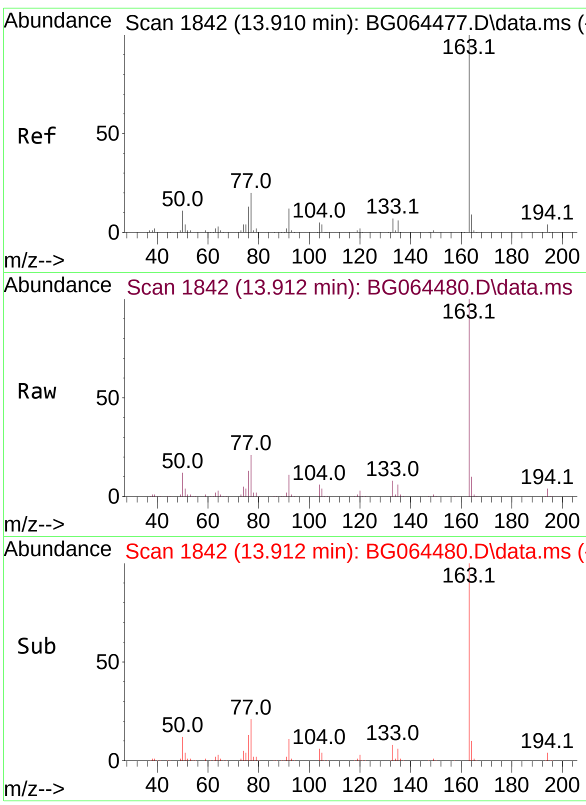
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion:152 Resp: 44583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 15.8 | 23.6 |
| 153 | 13.0 | 10.6 | 15.8 |

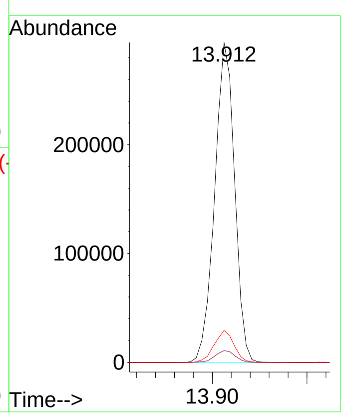


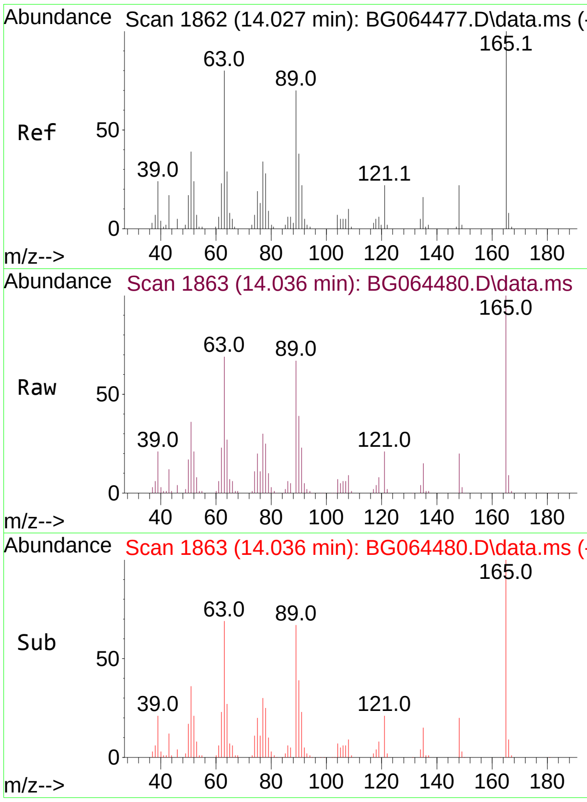

#50
Dimethylphthalate
Concen: 76.251 ng
RT: 13.912 min Scan# 1842
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:163 Resp: 430419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.7 | 2.9 | 4.3 |
| 164 | 10.0 | 7.4 | 11.0 |



ICAL Form




#51
2,6-Dinitrotoluene
Concen: 77.551 ng
RT: 14.036 min Scan# 18
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

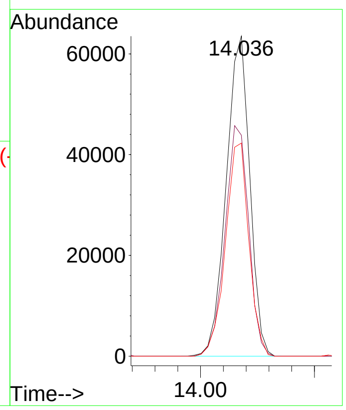
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

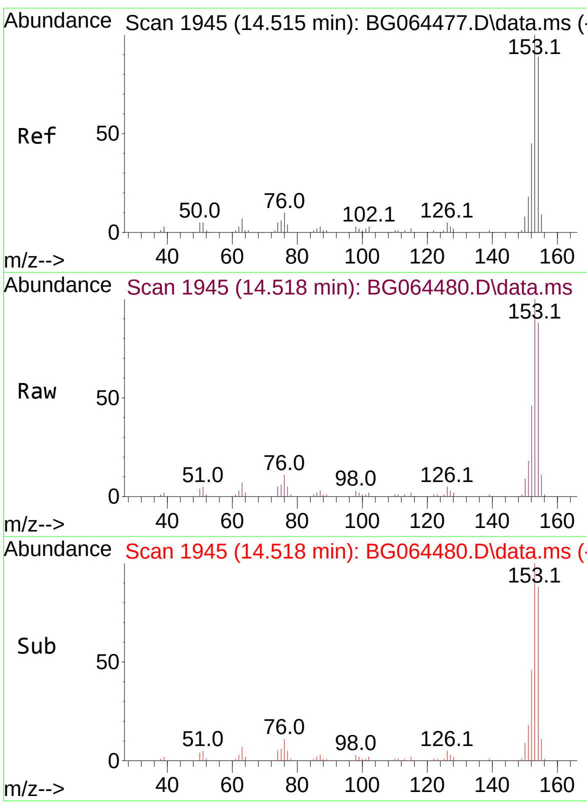
Tgt Ion:165 Resp: 9119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 69.0 | 63.9 | 95.9 |
| 89 | 66.6 | 56.1 | 84.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

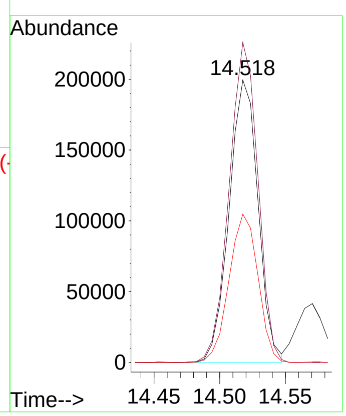


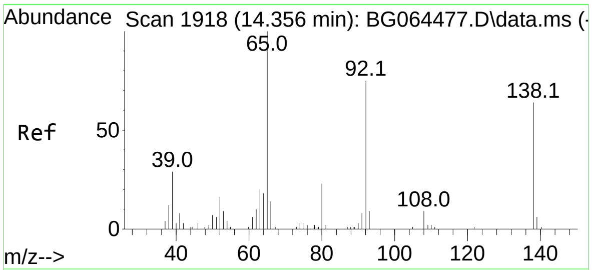

#52
Acenaphthene
Concen: 76.421 ng
RT: 14.518 min Scan# 1945
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

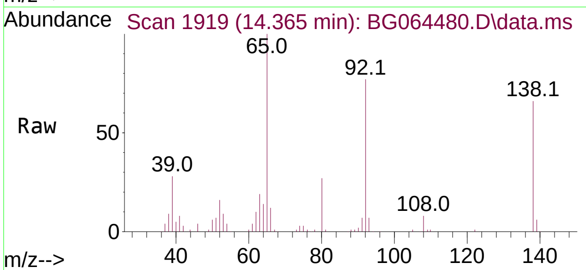
Tgt Ion:154 Resp: 305038

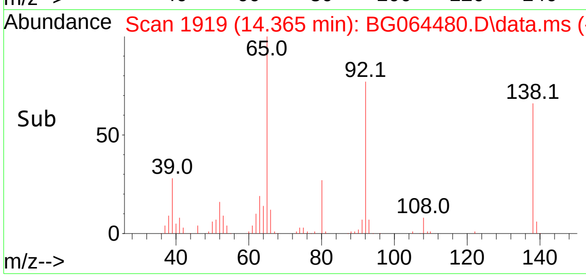
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.3 | 90.2 | 135.4 |
| 152 | 52.5 | 40.2 | 60.4 |



ICAL Form




#53
3-Nitroaniline
Concen: 78.688 ng
RT: 14.365 min Scan# 19
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

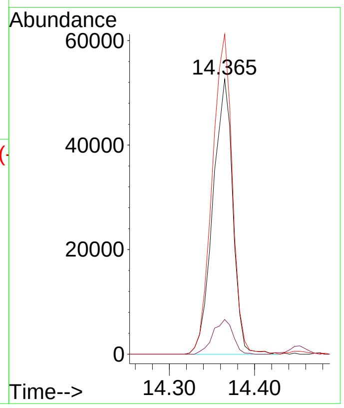
Tgt Ion:138 Resp: 8533

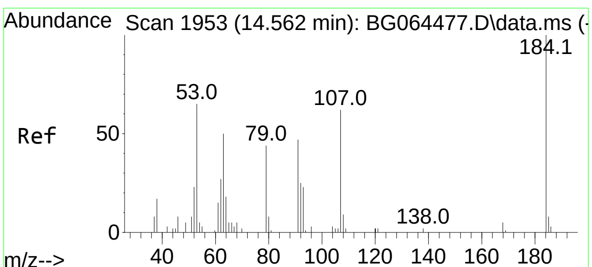
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.6 | 10.6 | 15.8 |
| 92 | 116.4 | 93.2 | 139.8 |

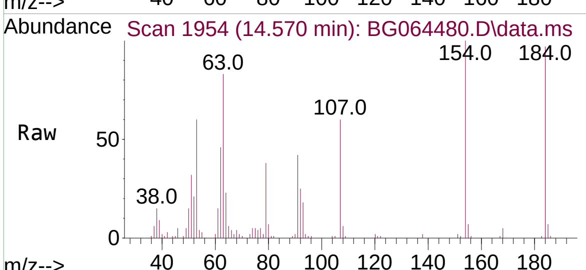
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

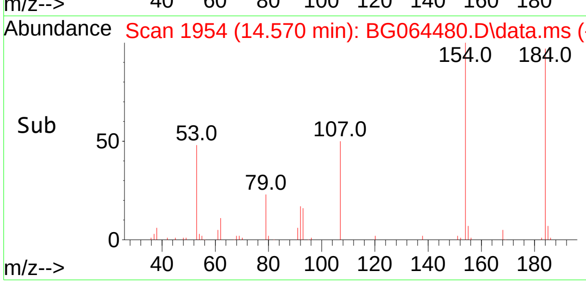
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



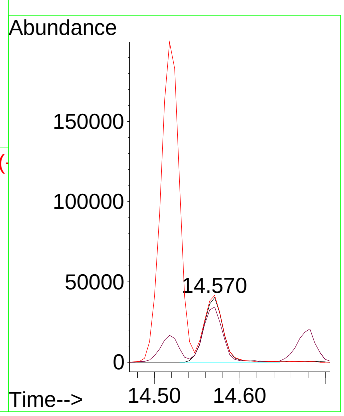



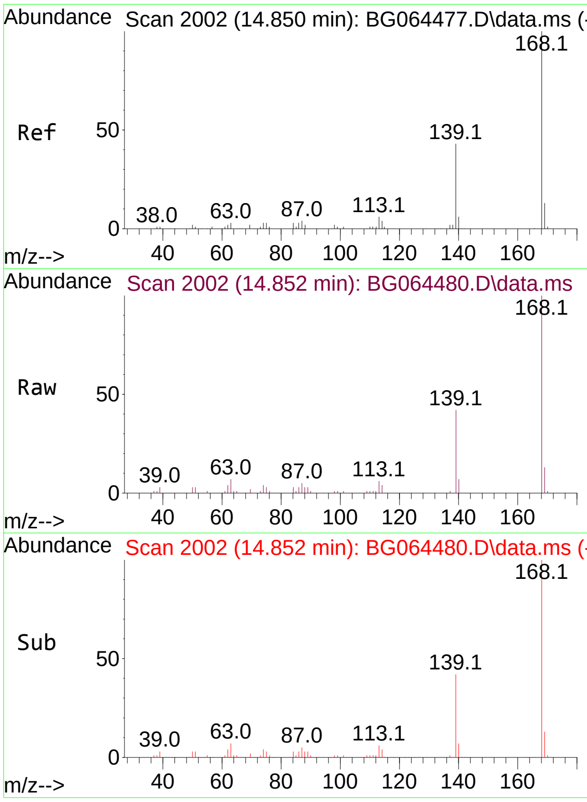

#54
2,4-Dinitrophenol
Concen: 74.326 ng
RT: 14.570 min Scan# 1954
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:184 Resp: 63374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 85.4 | 69.0 | 103.4 |
| 154 | 103.1 | 95.6 | 143.4 |



ICAL Form



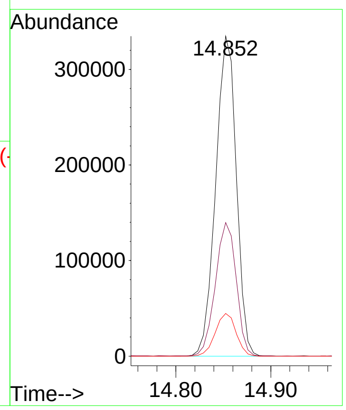

#55
Dibenzofuran
Concen: 76.684 ng
RT: 14.852 min Scan# 20
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

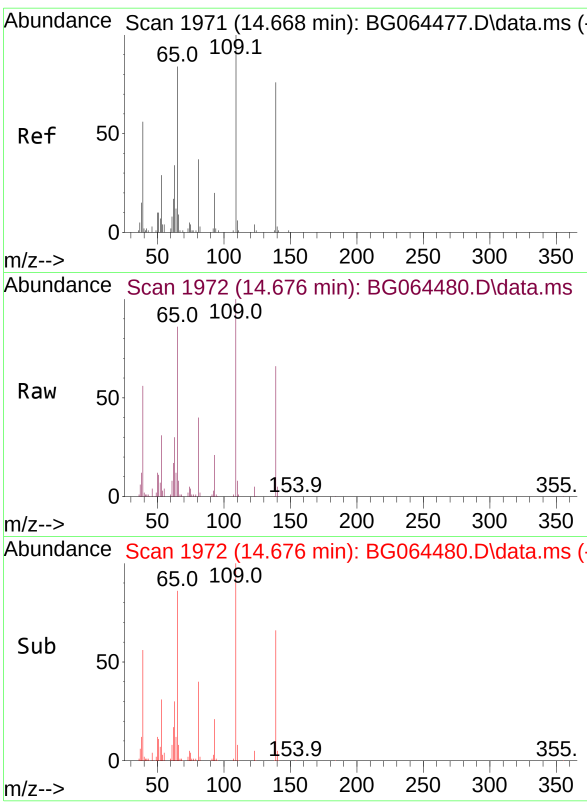
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:168 Resp: 505395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.7 | 34.0 | 51.0 |
| 169 | 13.3 | 10.2 | 15.2 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

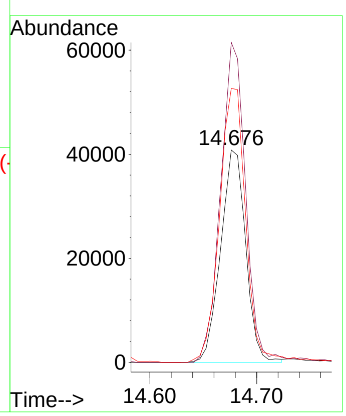


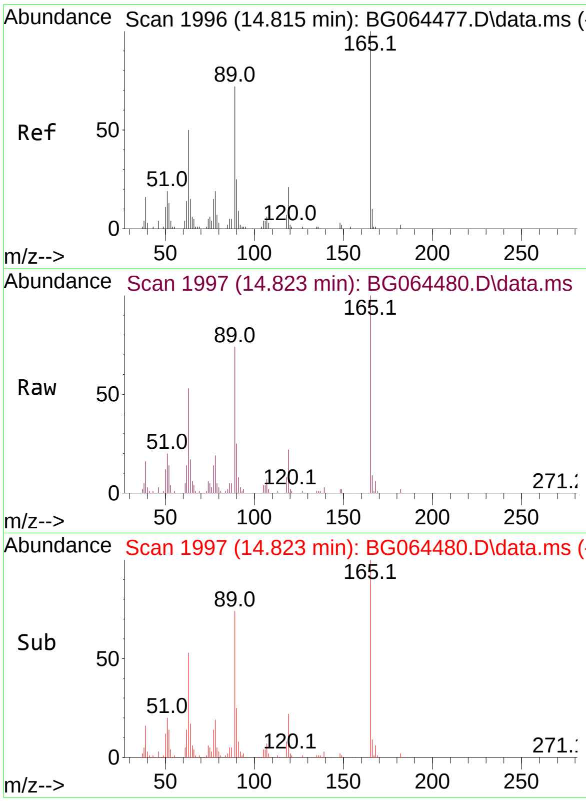




#56
4-Nitrophenol
Concen: 78.369 ng
RT: 14.676 min Scan# 1972
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:139 Resp: 66912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 150.7 | 111.8 | 151.8 |
| 65 | 129.0 | 91.1 | 131.1 |

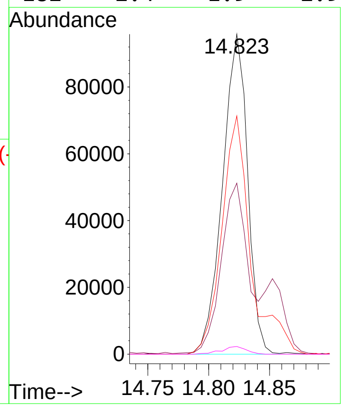





#57
2,4-Dinitrotoluene
Concen: 76.527 ng
RT: 14.823 min Scan# 19
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:165 Resp: 137560

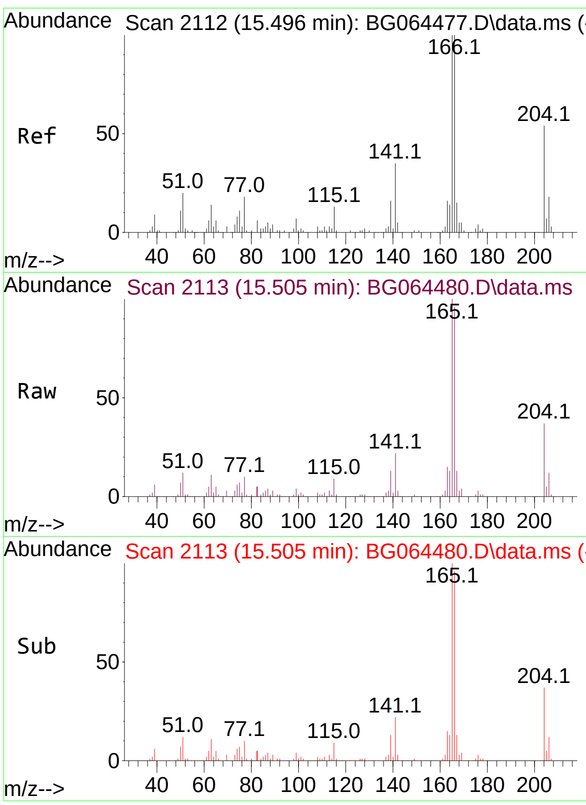
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 53.4 | 40.4 | 60.6 |
| 89 | 74.4 | 57.3 | 85.9 |
| 182 | 2.4 | 1.9 | 2.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

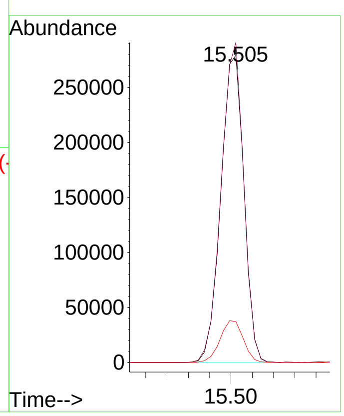
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



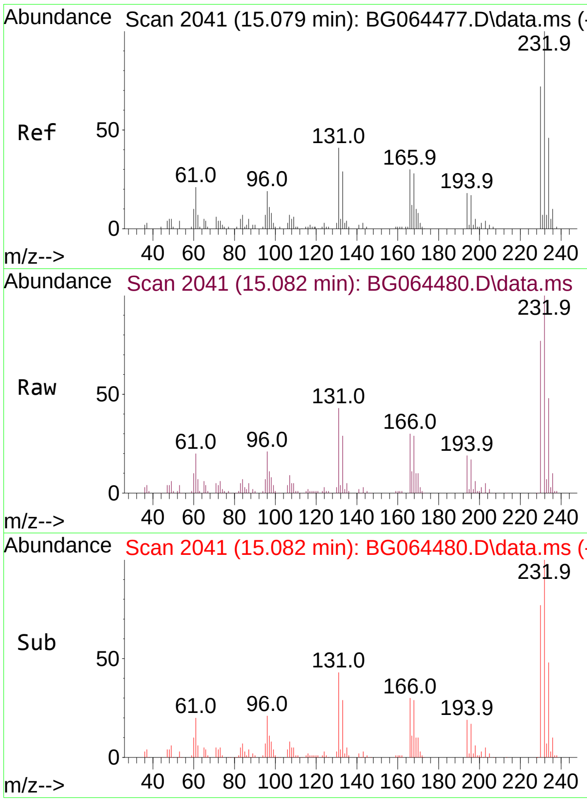

#58
Fluorene
Concen: 76.728 ng
RT: 15.505 min Scan# 2113
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:166 Resp: 420400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 104.2 | 79.8 | 119.6 |
| 167 | 13.3 | 11.7 | 17.5 |



ICAL Form




#59
2,3,4,6-Tetrachlorophenol
Concen: 77.799 ng
RT: 15.082 min Scan# 20
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:232 Resp: 13186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 43.0 | 35.0 | 52.4 |
| 130 | 2.8 | 2.0 | 3.0 |
| 166 | 29.5 | 23.8 | 35.6 |

**Manual Integrations**
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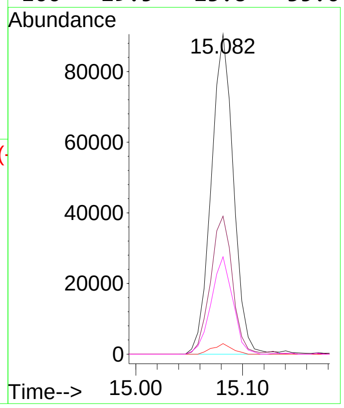
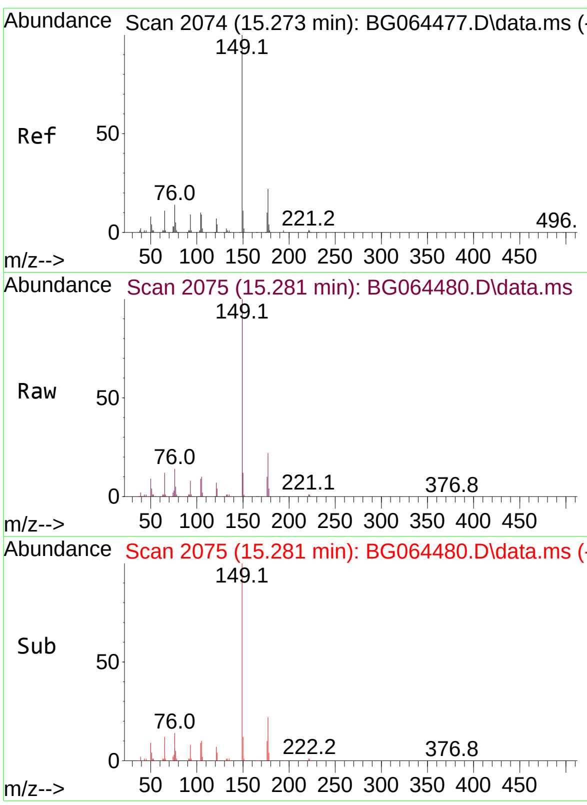
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

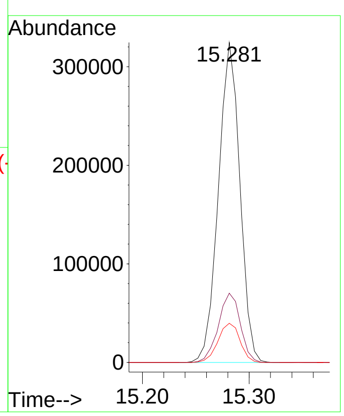


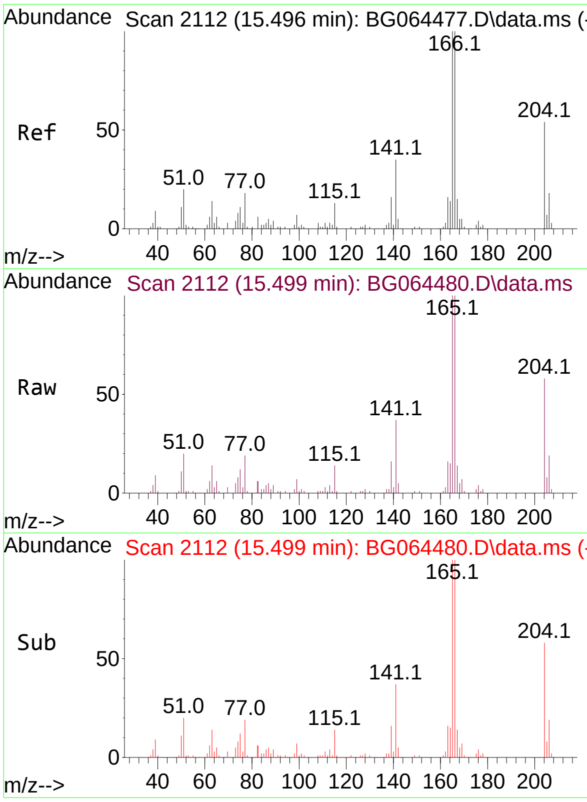




#60
Diethylphthalate
Concen: 75.126 ng
RT: 15.281 min Scan# 2075
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:149 Resp: 454922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 21.6 | 17.4 | 26.0 |
| 150 | 12.2 | 9.1 | 13.7 |





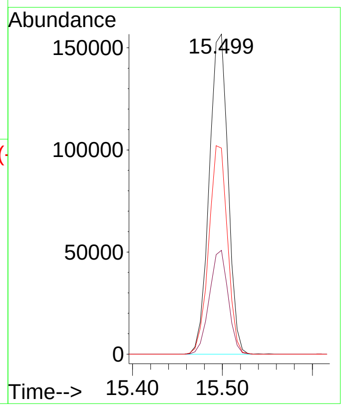

#61
4-Chlorophenyl-phenylether
Concen: 76.517 ng
RT: 15.499 min Scan# 2112
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

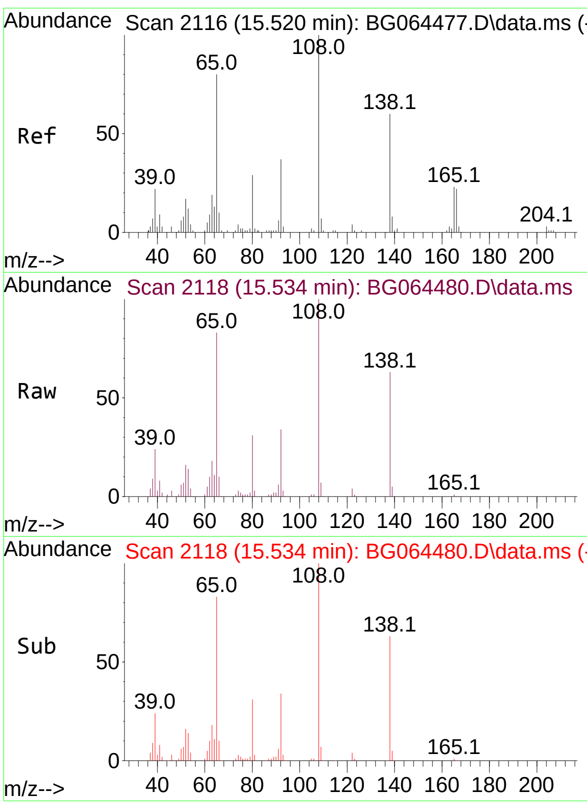
Tgt Ion:204 Resp: 228883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.5 | 27.1 | 40.7 |
| 141 | 64.4 | 51.5 | 77.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

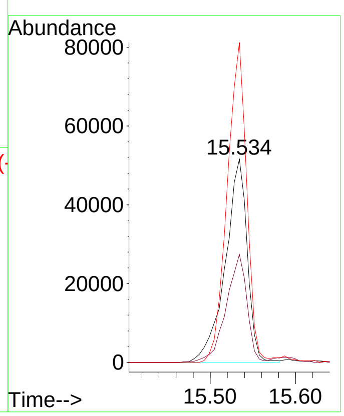


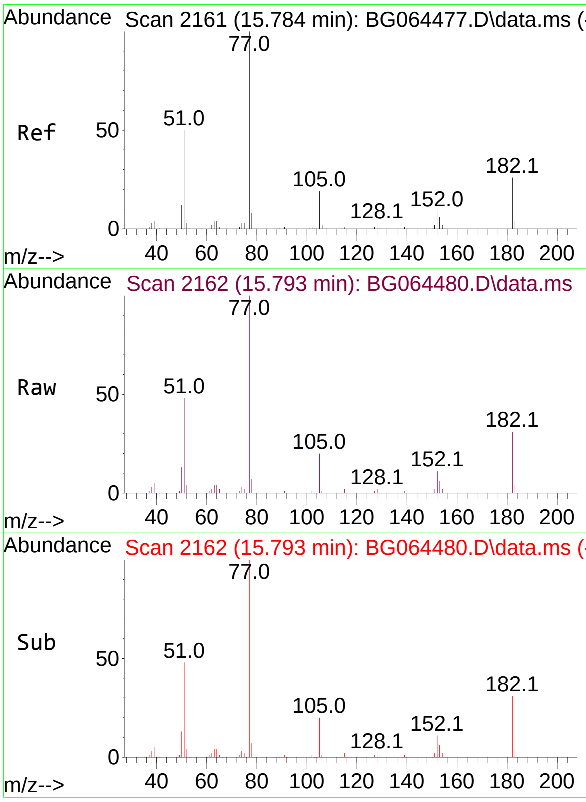




#62
4-Nitroaniline
Concen: 81.579 ng
RT: 15.534 min Scan# 2118
Delta R.T. 0.023 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:138 Resp: 92207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 53.1 | 42.3 | 82.3 |
| 108 | 157.6 | 147.7 | 187.7 |





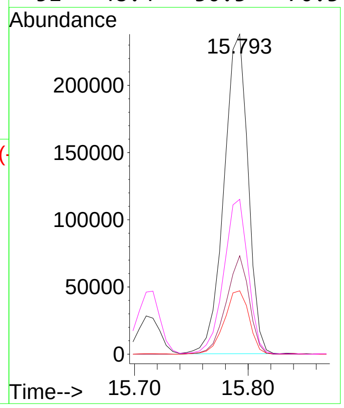

#63
Azobenzene
Concen: 74.723 ng
RT: 15.793 min Scan# 21
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

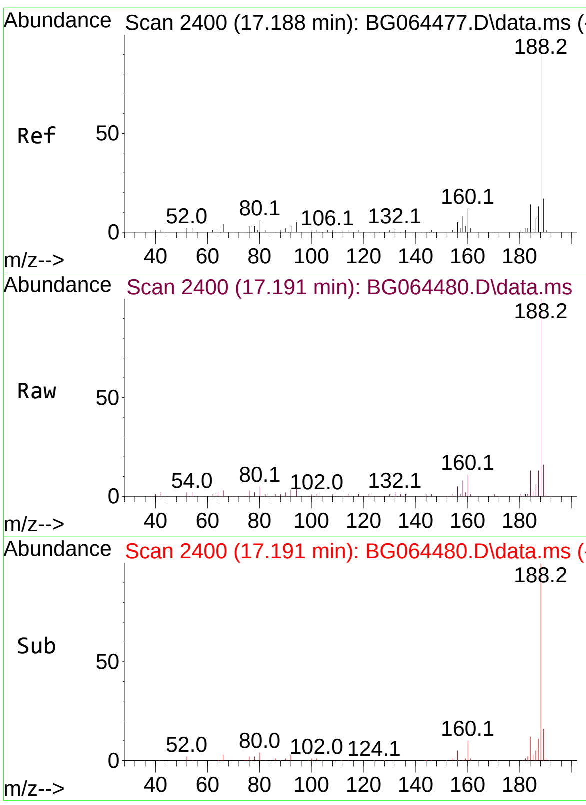
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion: 77 Resp: 35043(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 30.7 | 6.3 | 46.3 |
| 105 | 19.8 | 0.0 | 38.7 |
| 51 | 48.4 | 30.3 | 70.3 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

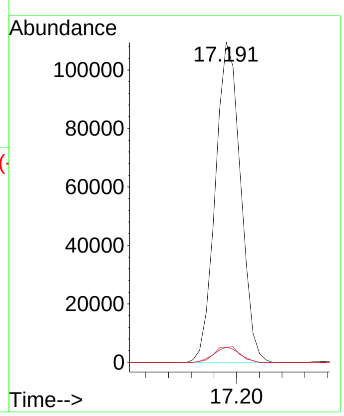


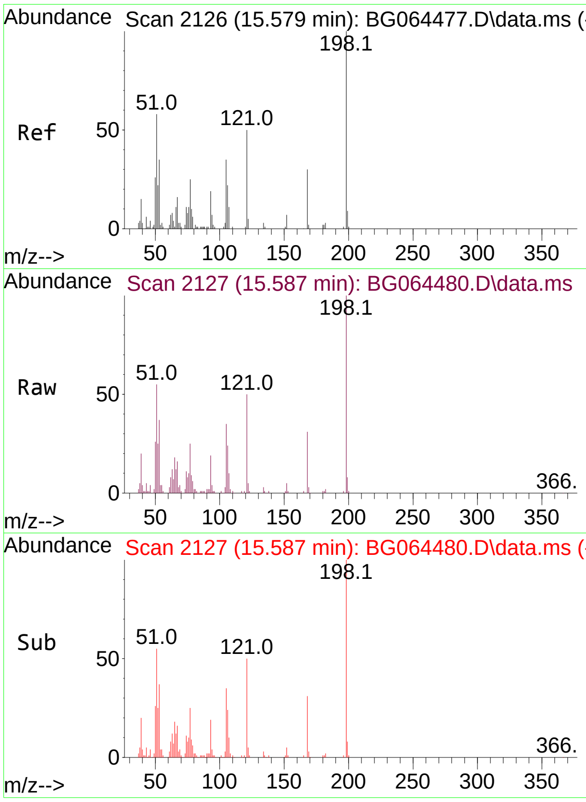

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.191 min Scan# 2400
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:188 Resp: 168856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 4.8 | 3.7 | 5.5 |
| 80 | 4.7 | 4.5 | 6.7 |



ICAL Form




#65
4,6-Dinitro-2-methylphenol
Concen: 82.760 ng
RT: 15.587 min Scan# 21
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

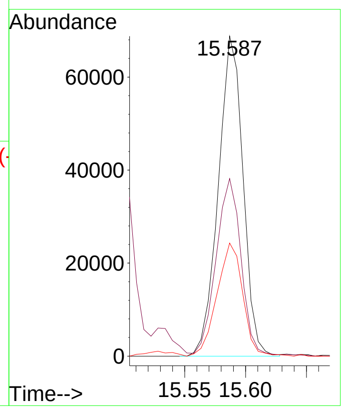
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

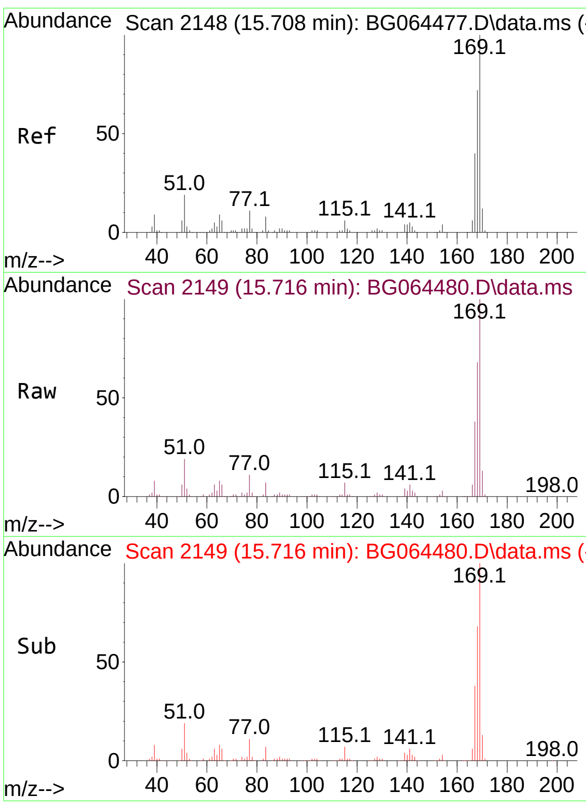
Tgt Ion:198 Resp: 9730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 55.5 | 39.0 | 79.0 |
| 105 | 35.3 | 15.8 | 55.8 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

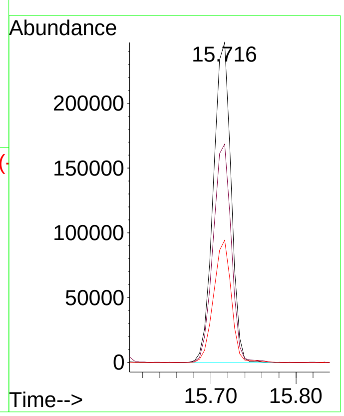


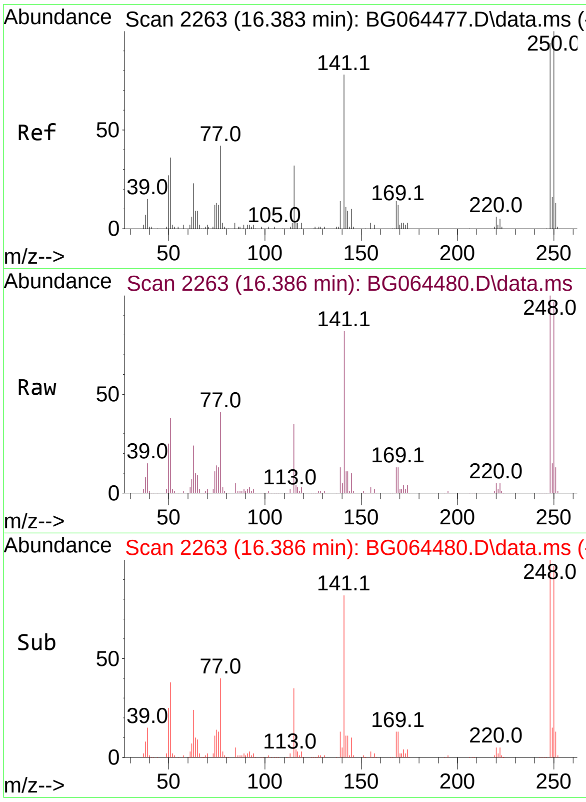




#66
n-Nitrosodiphenylamine
Concen: 79.230 ng
RT: 15.716 min Scan# 2149
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:169 Resp: 357258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 68.2 | 57.8 | 86.6 |
| 167 | 38.2 | 31.7 | 47.5 |





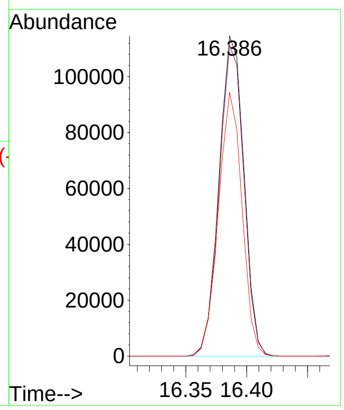

#67
4-Bromophenyl-phenylether
Concen: 81.997 ng
RT: 16.386 min Scan# 2
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

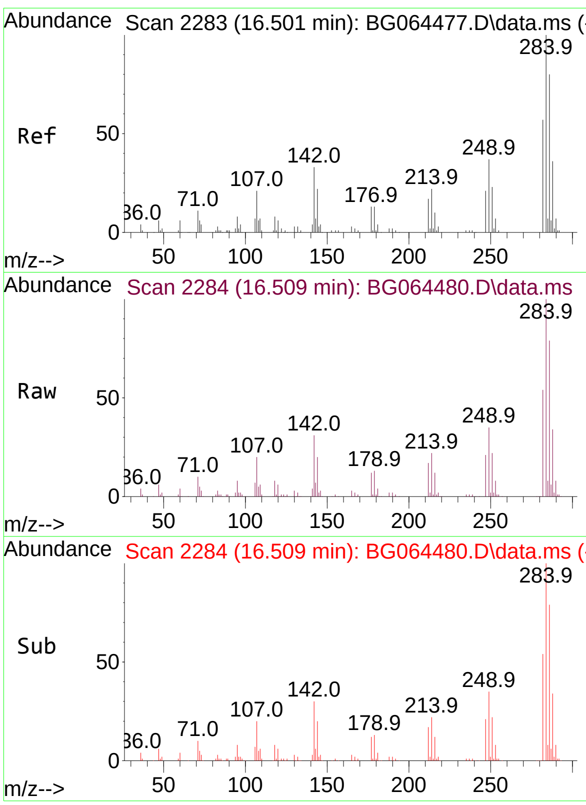
Tgt Ion:248 Resp: 16293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.1 | 85.3 | 127.9 |
| 141 | 82.3 | 66.2 | 99.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

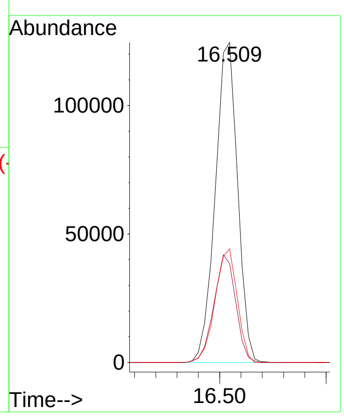


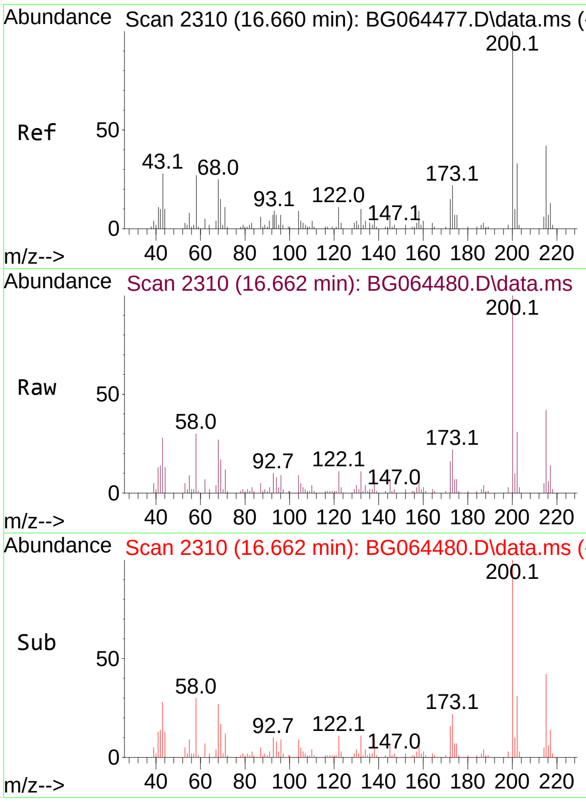

#68
Hexachlorobenzene
Concen: 80.068 ng
RT: 16.509 min Scan# 2284
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:284 Resp: 182054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.8 | 26.2 | 39.2 |
| 249 | 35.5 | 29.4 | 44.0 |



ICAL Form




#69
Atrazine
Concen: 73.799 ng
RT: 16.662 min Scan# 2
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

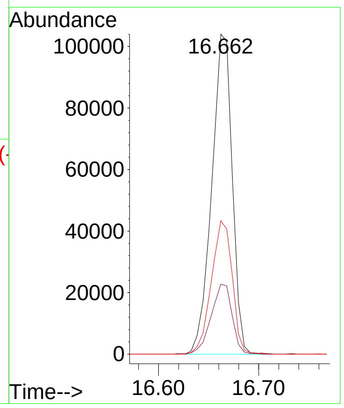
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

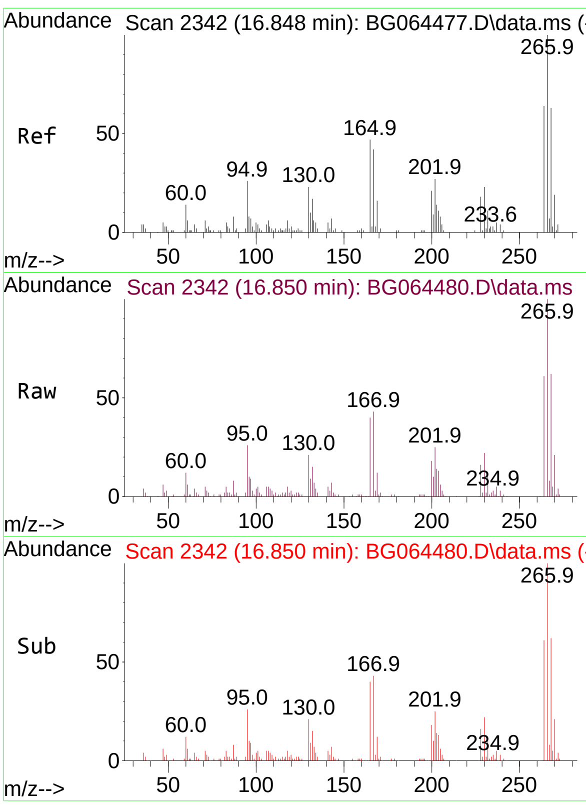
Tgt Ion:200 Resp: 14805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 21.9 | 2.5 | 42.5 |
| 215 | 41.7 | 21.5 | 61.5 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

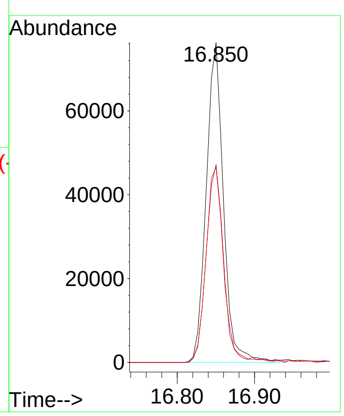


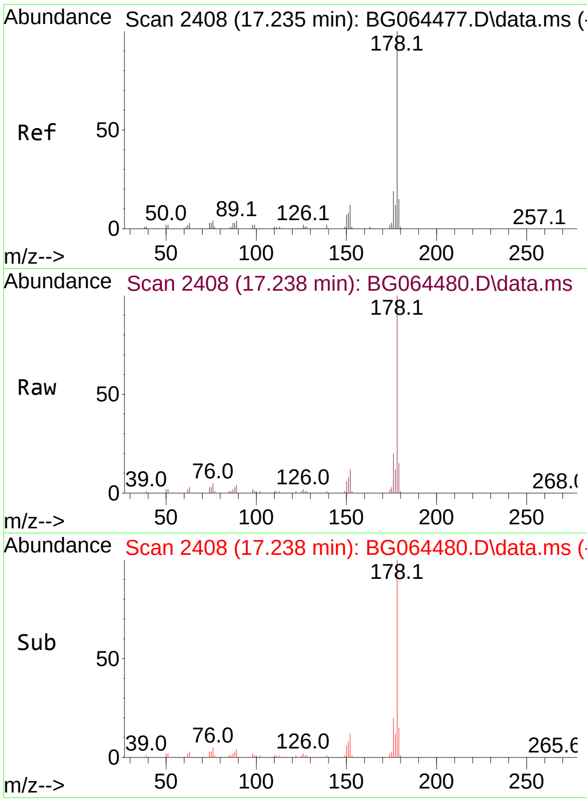




#70
Pentachlorophenol
Concen: 88.752 ng
RT: 16.850 min Scan# 2342
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:266 Resp: 117991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 61.7 | 50.6 | 75.8 |
| 264 | 60.9 | 51.2 | 76.8 |





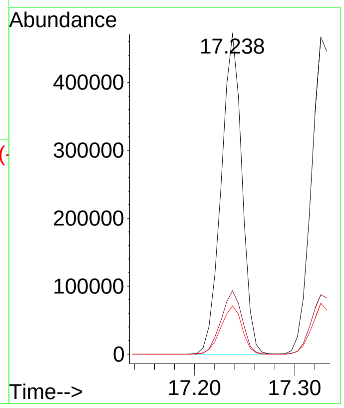

#71
Phenanthrene
Concen: 77.283 ng
RT: 17.238 min Scan# 24
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

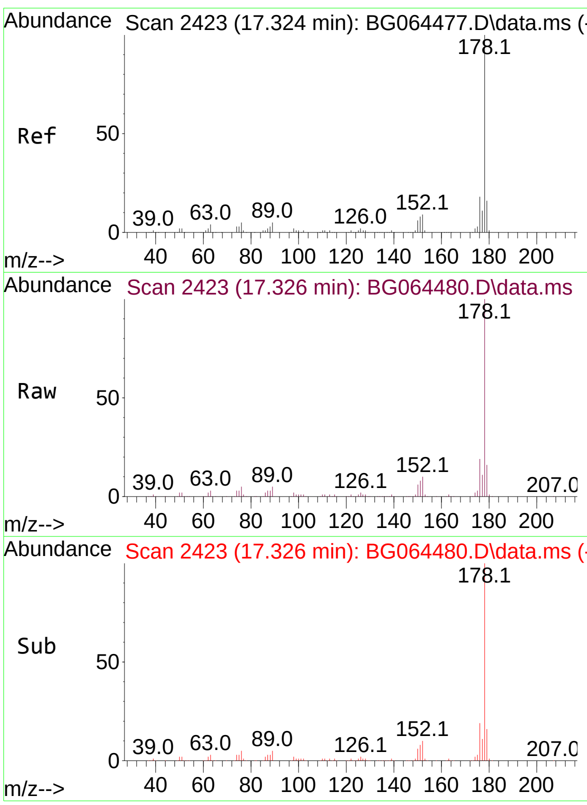
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:178 Resp: 68244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.8 | 15.2 | 22.8 |
| 179 | 15.1 | 11.8 | 17.6 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

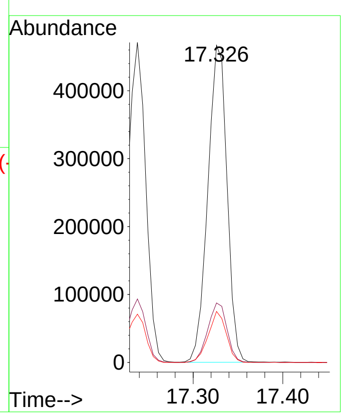


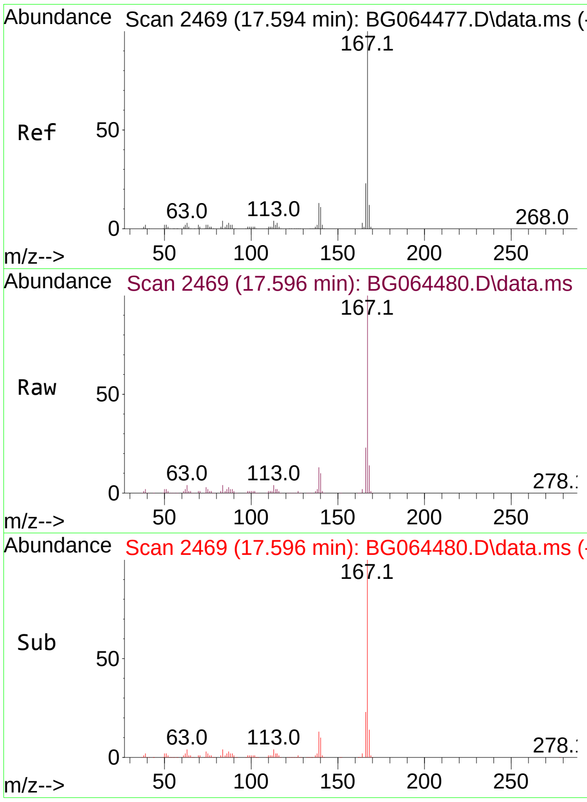

#72
Anthracene
Concen: 78.433 ng
RT: 17.326 min Scan# 2423
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:178 Resp: 694820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.6 | 21.8 |
| 179 | 16.1 | 12.5 | 18.7 |



ICAL Form




#73
Carbazole
Concen: 77.661 ng
RT: 17.596 min Scan# 24
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

Tgt Ion:167 Resp: 59466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.4 | 18.6 | 27.8 |
| 139 | 13.5 | 10.2 | 15.4 |

**Manual Integrations**
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Reviewed By :Rahul Chavli 10/03/2025
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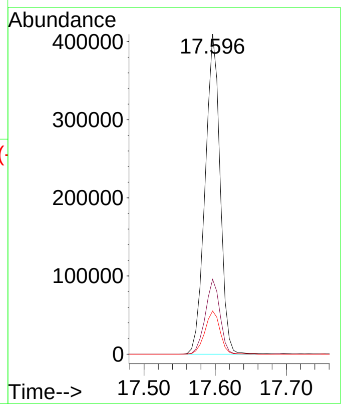
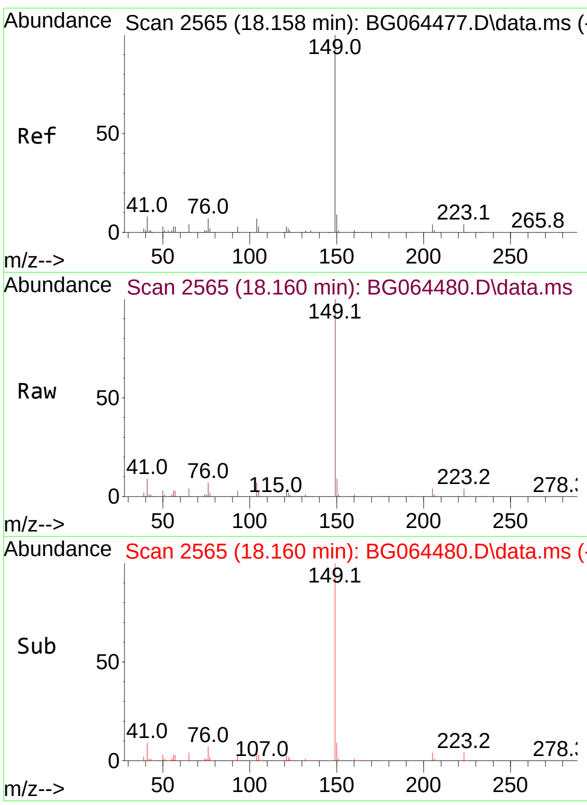
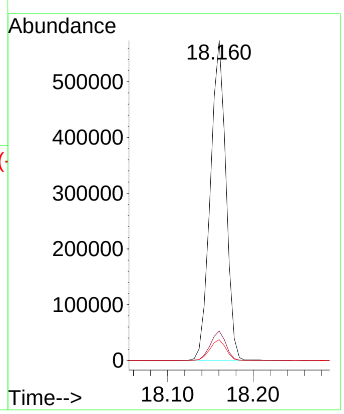


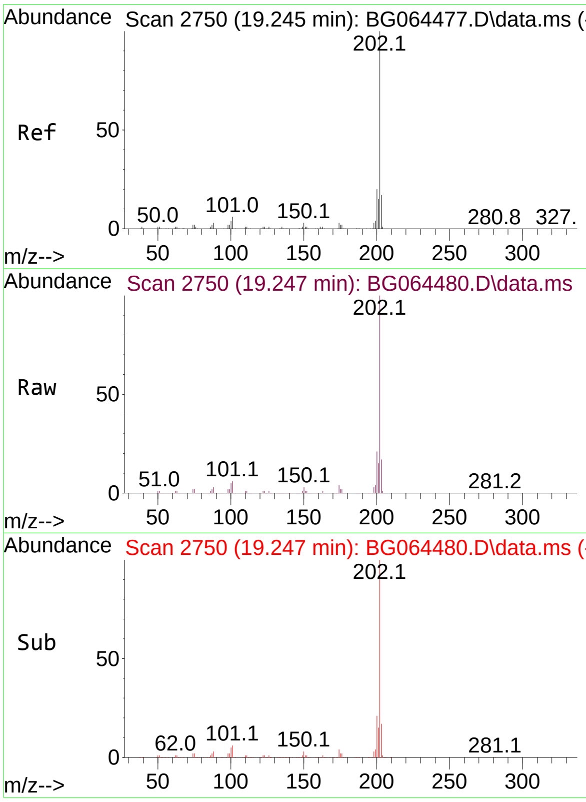




#74
Di-n-butylphthalate
Concen: 77.727 ng
RT: 18.160 min Scan# 2565
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:149 Resp: 726555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.2 |
| 104 | 6.5 | 5.3 | 7.9 |

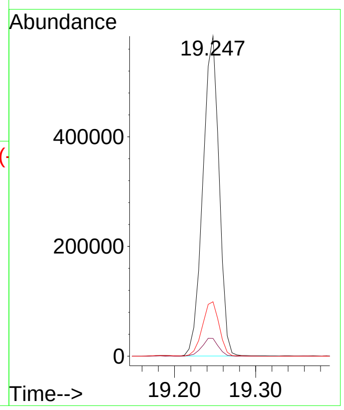





#75
Fluoranthene
Concen:   77.060 ng
RT:  19.247 min  Scan# 2
Delta R.T.  0.011 min
Lab File:   BG064480.D
Acq:  2 Oct 2025  14:16

Tgt Ion:202 Resp:  81292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.5 | 0.0 | 25.7 |
| 203 | 17.0 | 0.0 | 36.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
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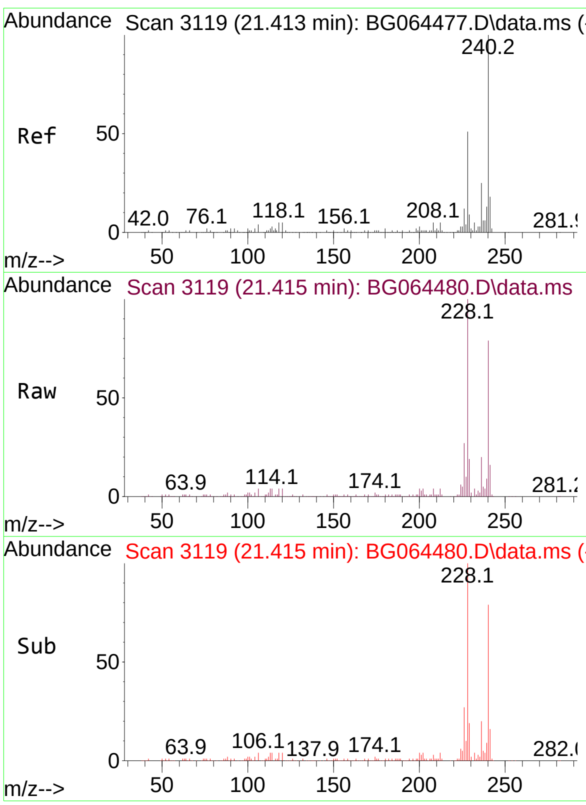
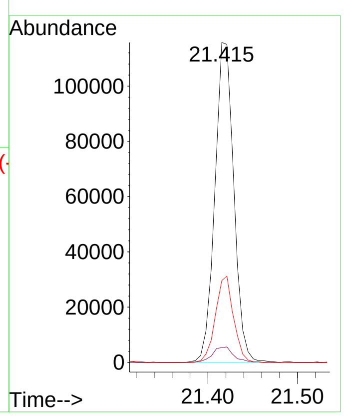
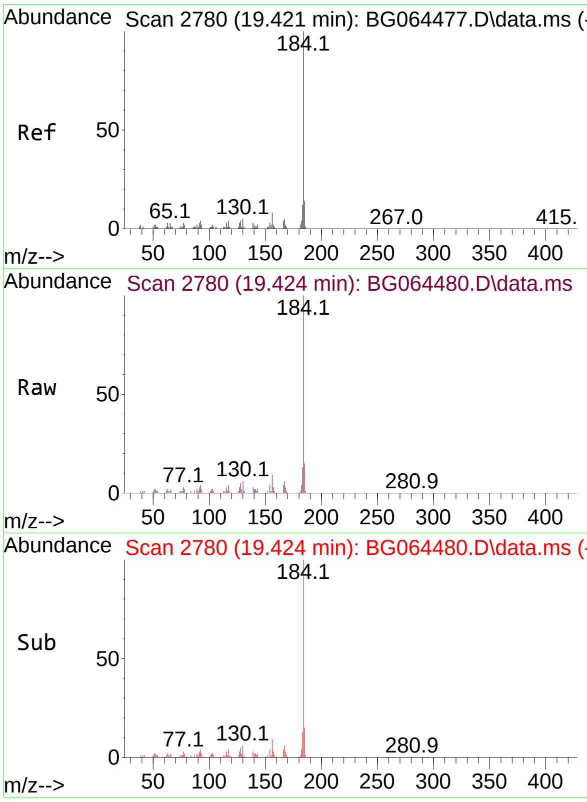



#76
Chrysene-d12
Concen:   20.000 ng
RT:  21.415 min  Scan# 3119
Delta R.T.  0.005 min
Lab File:   BG064480.D
Acq:  2 Oct 2025  14:16

Tgt Ion:240 Resp:  171497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 4.6 | 4.3 | 6.5 |
| 236 | 25.6 | 20.4 | 30.6 |

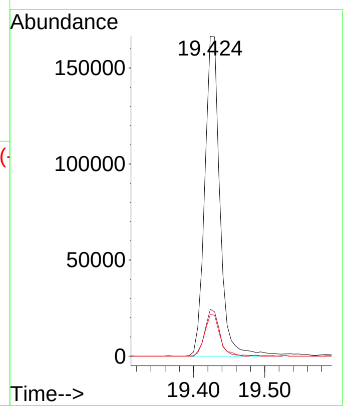





#77
Benzidine
Concen: 57.755 ng
RT: 19.424 min Scan# 2780
Delta R.T. -0.001 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:184 Resp: 246468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.6 | 10.9 | 16.3 |
| 183 | 13.0 | 9.8 | 14.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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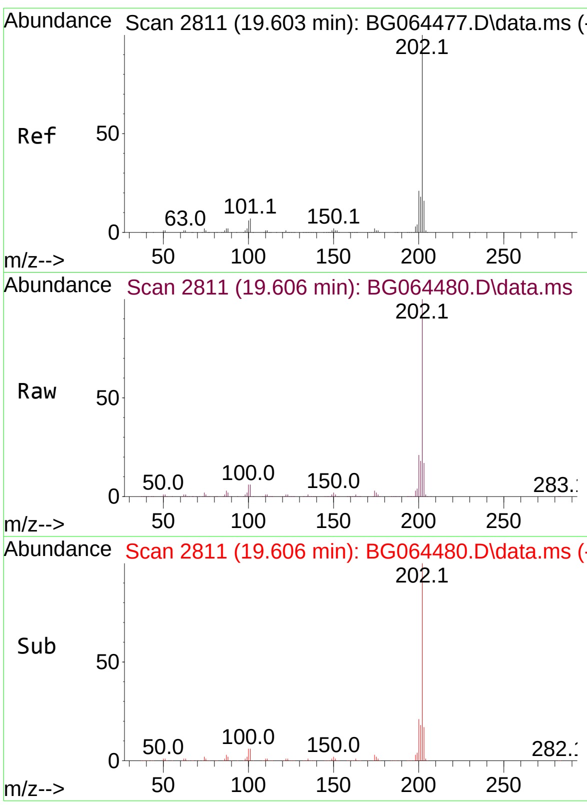
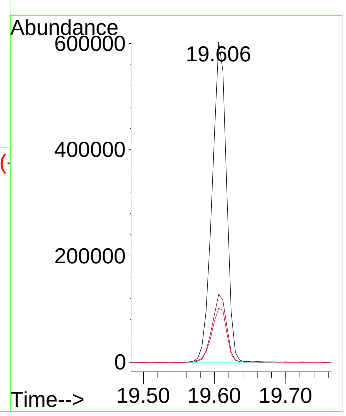
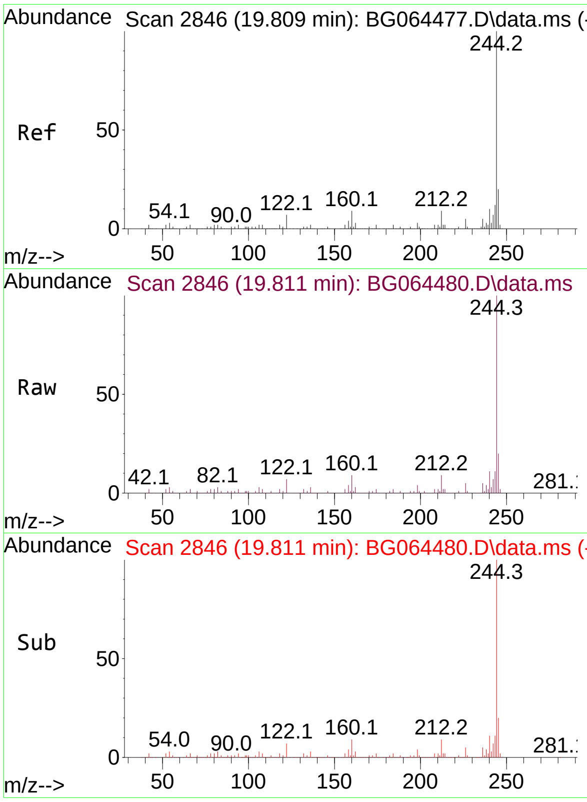



#78
Pyrene
Concen: 75.840 ng
RT: 19.606 min Scan# 2811
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:202 Resp: 844065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 16.8 | 13.0 | 19.4 |






#79
Terphenyl-d14
Concen: 151.833 ng
RT: 19.811 min Scan# 28
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:244 Resp: 1375899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.8 | 7.0 | 10.6 |
| 122 | 7.4 | 5.6 | 8.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
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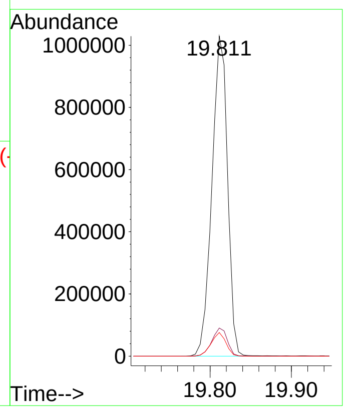
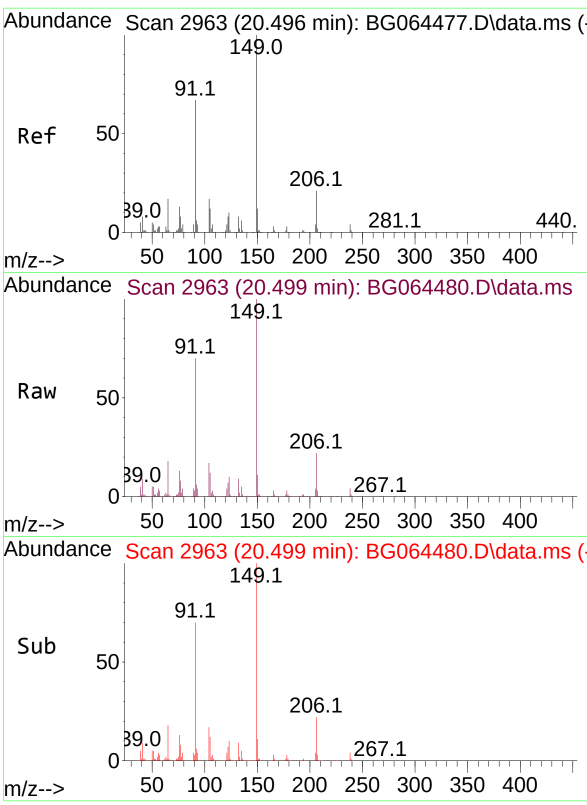
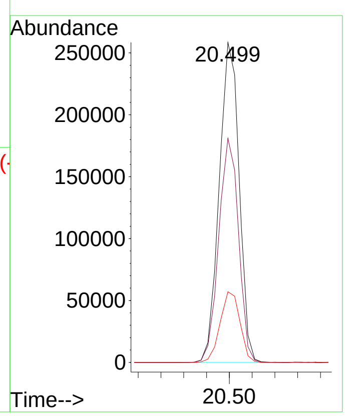


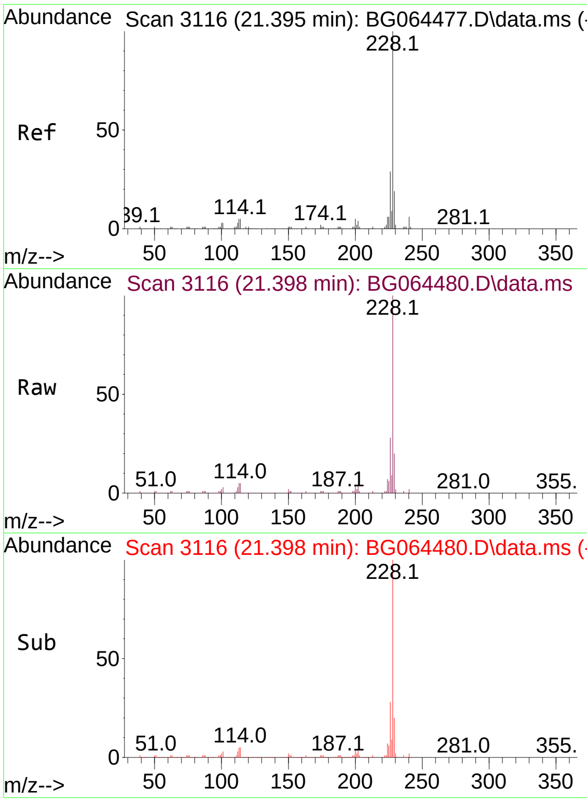




#80
Butylbenzylphthalate
Concen: 79.710 ng
RT: 20.499 min Scan# 2963
Delta R.T. -0.001 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:149 Resp: 314484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 70.0 | 53.7 | 80.5 |
| 206 | 22.1 | 16.6 | 24.8 |






#81
Benzo(a)anthracene
Concen: 78.497 ng
RT: 21.398 min Scan# 31
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:228 Resp: 859554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.8 | 34.2 |
| 229 | 20.2 | 15.2 | 22.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
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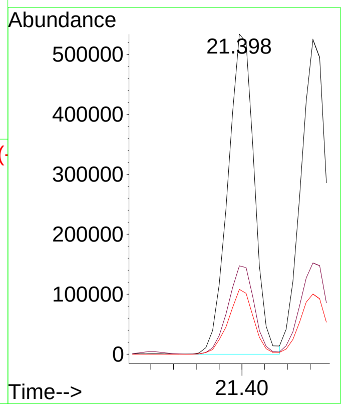
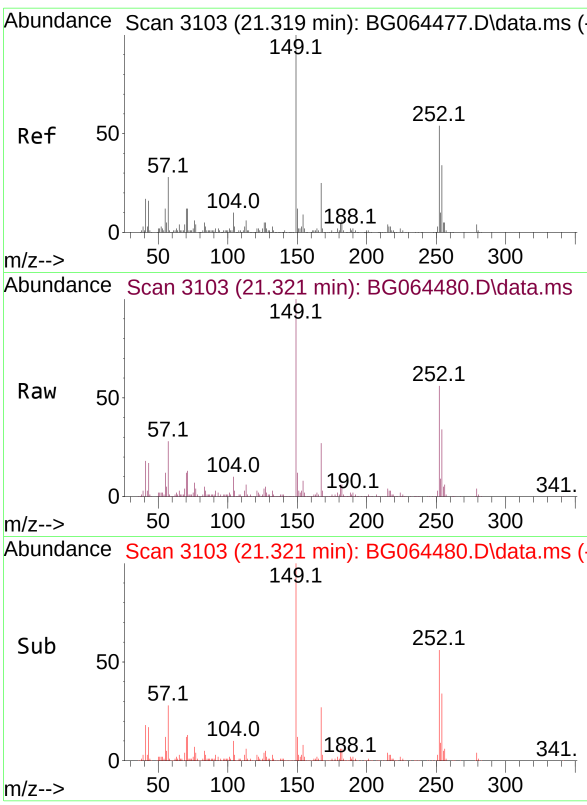
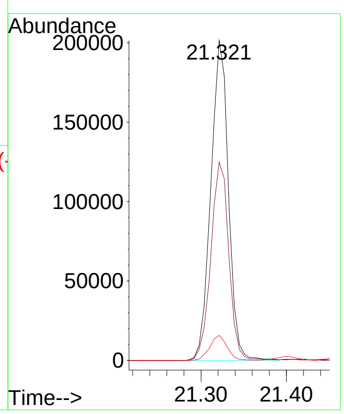



#82
3,3'-Dichlorobenzidine
Concen: 77.829 ng
RT: 21.321 min Scan# 3103
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:252 Resp: 288449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 61.9 | 50.5 | 75.7 |
| 126 | 7.8 | 7.1 | 10.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
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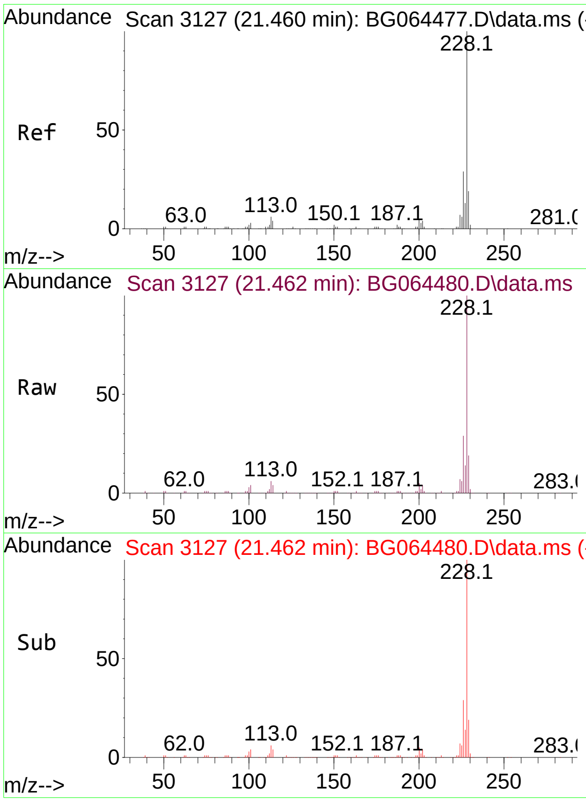
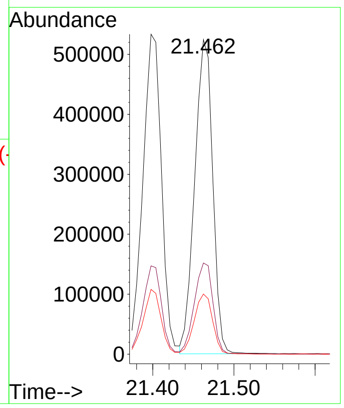
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

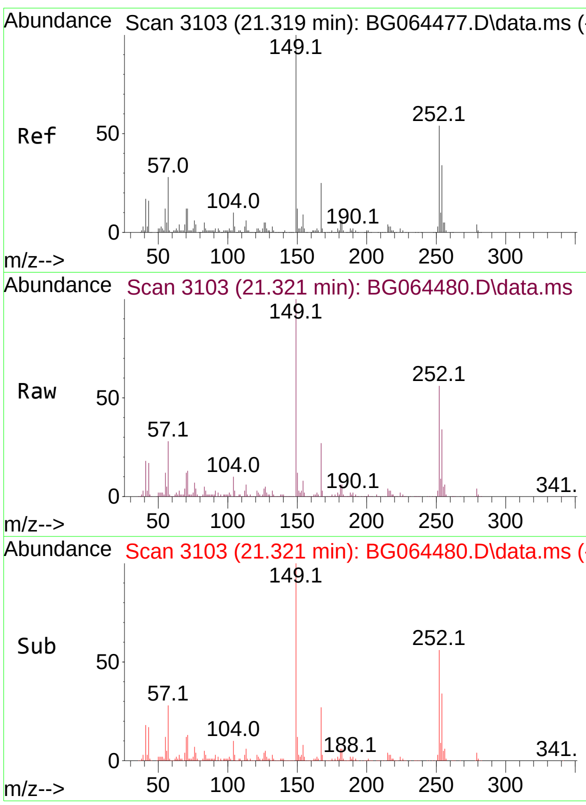



#83
Chrysene
Concen: 77.803 ng
RT: 21.462 min Scan# 31
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:228 Resp: 80796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.0 | 22.8 | 34.2 |
| 229 | 19.1 | 15.4 | 23.0 |

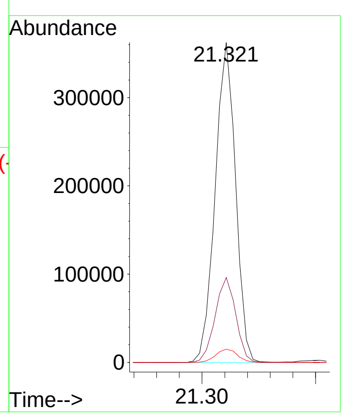


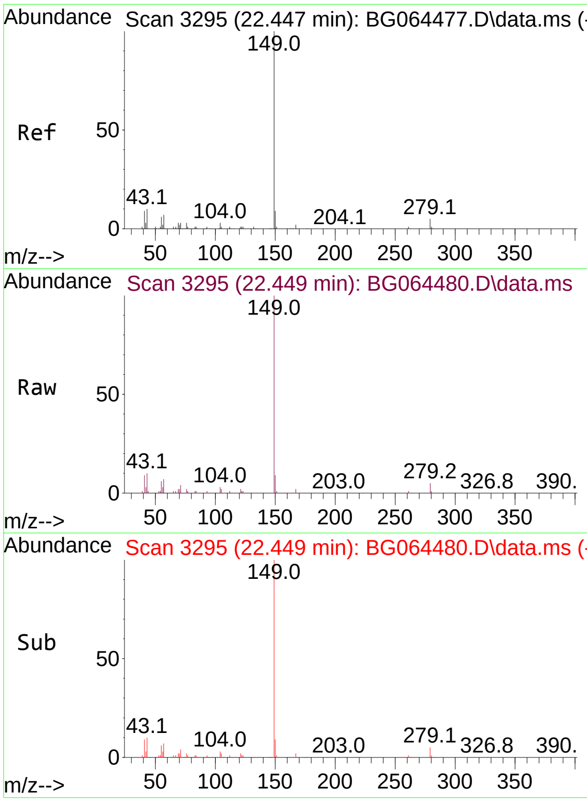




#84
Bis(2-ethylhexyl)phthalate
Concen: 81.044 ng
RT: 21.321 min Scan# 3103
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:149 Resp: 451147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.5 | 19.7 | 29.5 |
| 279 | 4.1 | 3.4 | 5.2 |






#85
Di-n-octyl phthalate
Concen: 79.877 ng
RT: 22.449 min Scan# 3
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:149 Resp: 74730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 10.4 | 7.9 | 11.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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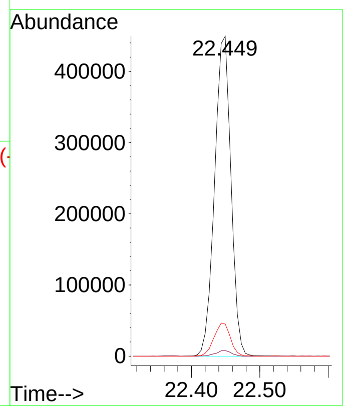
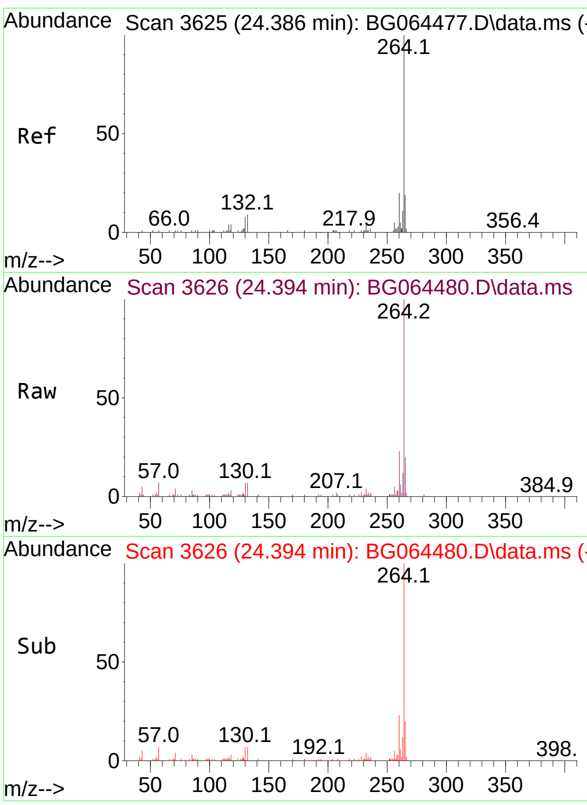
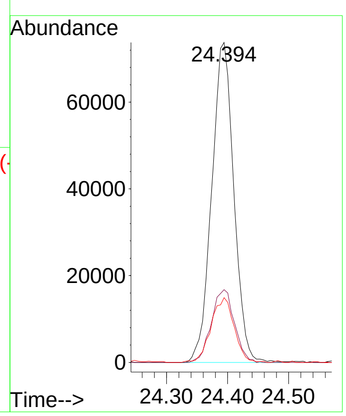


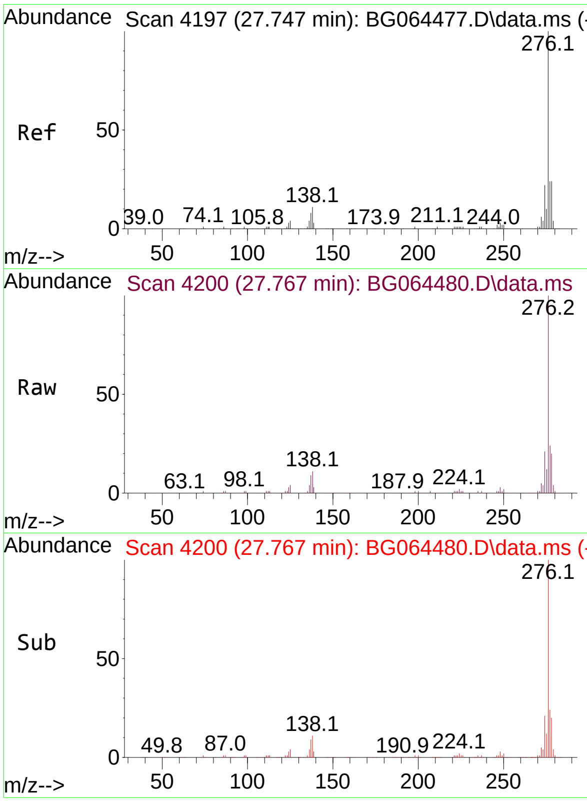




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.394 min Scan# 3626
Delta R.T. 0.005 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:264 Resp: 185893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.7 | 16.2 | 24.4 |
| 265 | 20.2 | 15.0 | 22.4 |





#87
Indeno(1,2,3-cd)pyrene
Concen: 78.621 ng
RT: 27.767 min Scan# 4200
Delta R.T. 0.034 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:276 Resp: 1017303
Ion Ratio Lower Upper
276 100
138 6.5 10.8 16.2#
277 26.0 20.3 30.5

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
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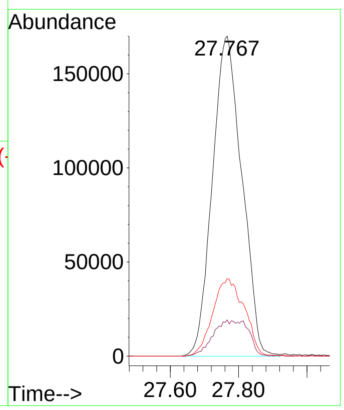
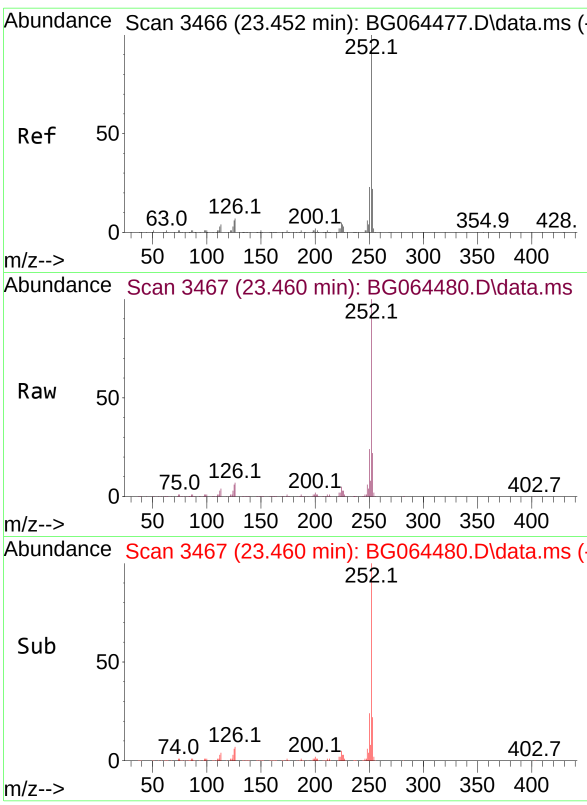
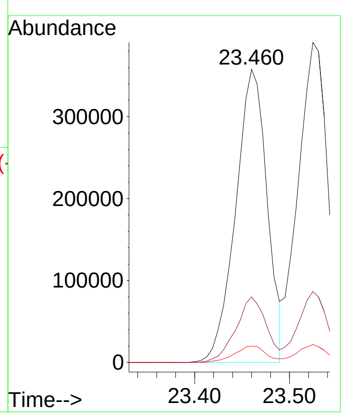




#88
Benzo(b)fluoranthene
Concen: 78.008 ng
RT: 23.460 min Scan# 3467
Delta R.T. 0.011 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:252 Resp: 824972
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 5.5 4.5 6.7



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**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
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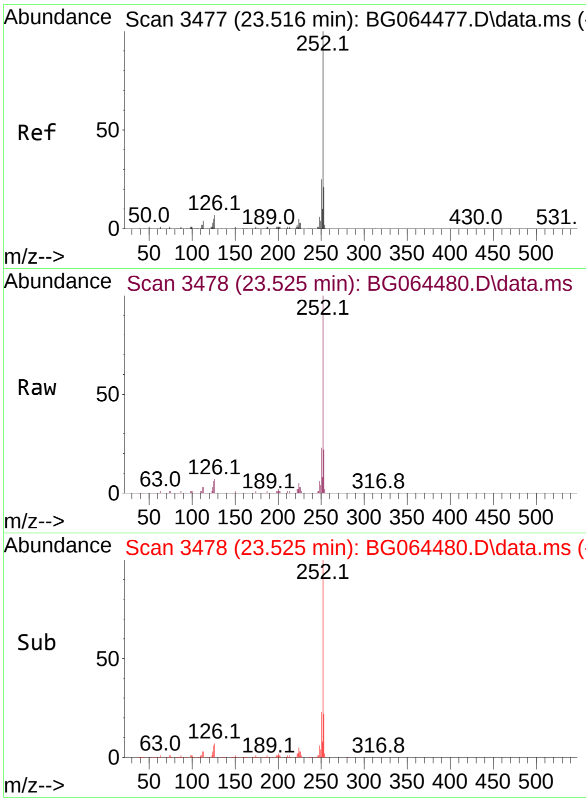
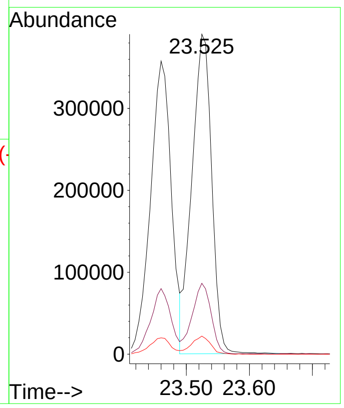
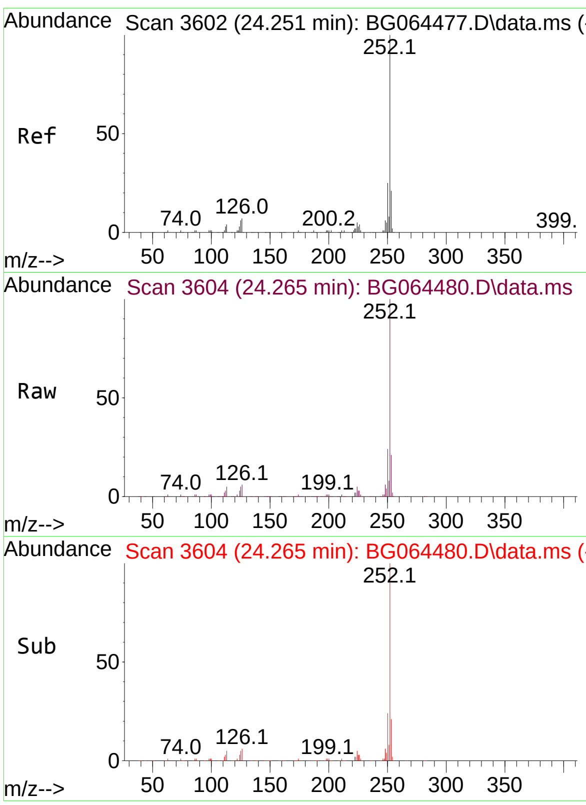



#89
Benzo(k)fluoranthene
Concen: 79.738 ng
RT: 23.525 min Scan# 34
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

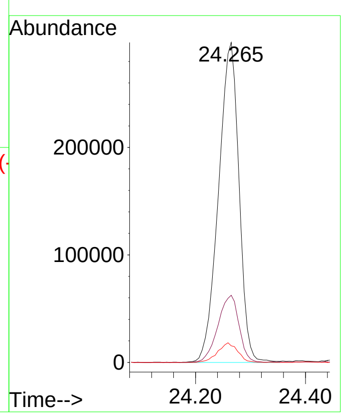
Tgt Ion:252 Resp: 84930
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.2
125 5.7 4.0 6.0

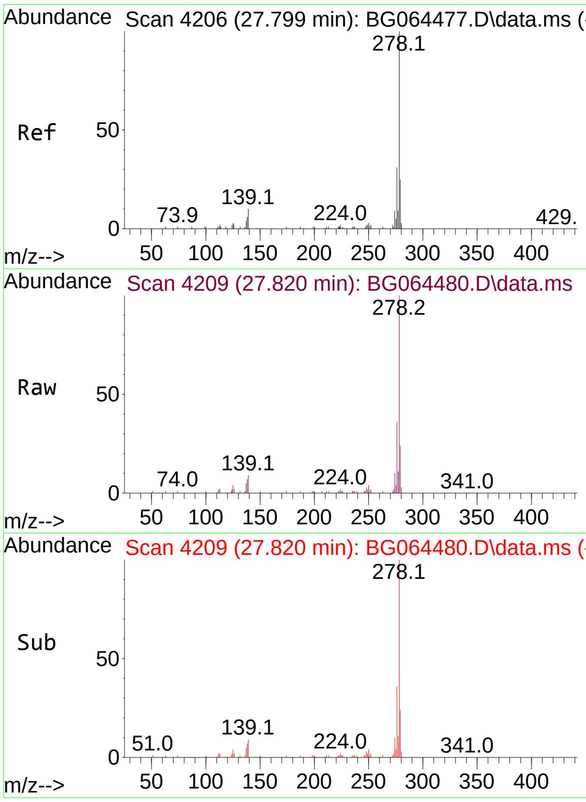



#90
Benzo(a)pyrene
Concen: 79.130 ng
RT: 24.265 min Scan# 3604
Delta R.T. 0.017 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:252 Resp: 771257
Ion Ratio Lower Upper
252 100
253 21.0 17.1 25.7
125 5.2 4.6 6.8






#91
Dibenzo(a,h)anthracene
Concen: 80.178 ng
RT: 27.820 min Scan# 4
Delta R.T. 0.040 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

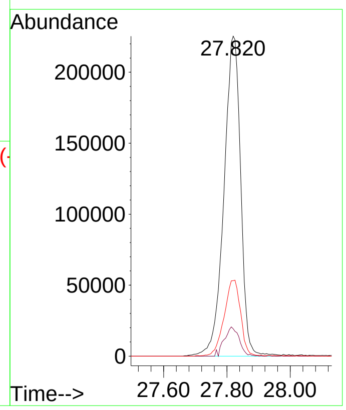
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC080

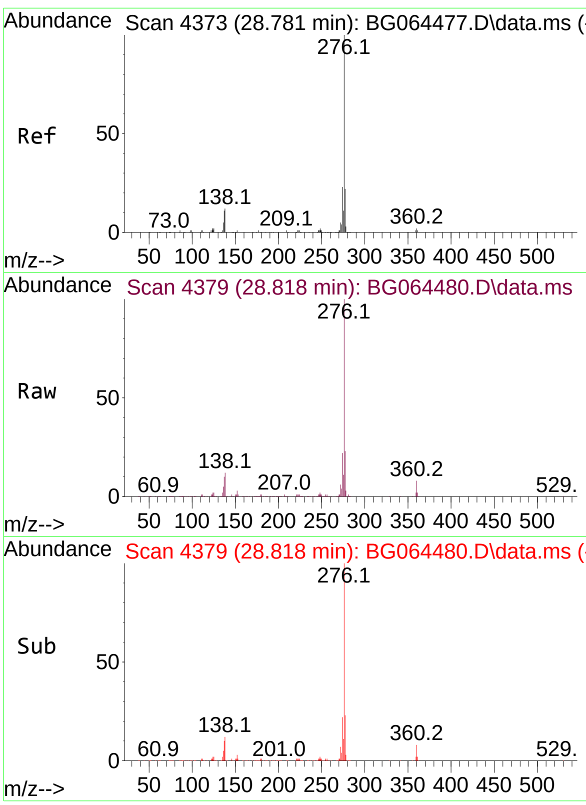
Tgt Ion:278 Resp: 82966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 8.5 | 8.2 | 12.2 |
| 279 | 23.6 | 19.6 | 29.4 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

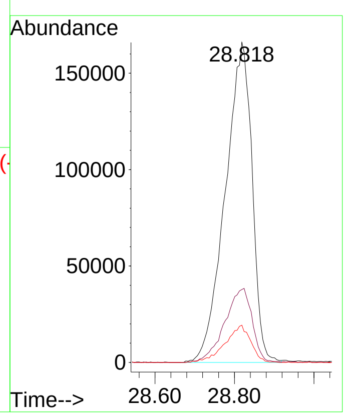



#92
Benzo(g,h,i)perylene
Concen: 77.460 ng
RT: 28.818 min Scan# 4379
Delta R.T. 0.052 min
Lab File: BG064480.D
Acq: 2 Oct 2025 14:16

Tgt Ion:276 Resp: 778918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.8 | 17.8 | 26.6 |
| 138 | 11.6 | 9.4 | 14.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED
Reviewed By :Rahul Chavli

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064481.D
Acq On : 2 Oct 2025 15:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 02 17:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.820 | 152 | 18970 | 20.000 ng | # 0.00 |
| 21) Naphthalene-d8 | 10.605 | 136 | 83408 | 20.000 ng | # 0.00 |
| 39) Acenaphthene-d10 | 14.448 | 164 | 63487 | 20.000 ng | 0.00 |
| 64) Phenanthrene-d10 | 17.186 | 188 | 165339 | 20.000 ng | # 0.00 |
| 76) Chrysene-d12 | 21.410 | 240 | 164846 | 20.000 ng | 0.00 |
| 86) Perylene-d12 | 24.389 | 264 | 177771 | 20.000 ng | # 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 5.406 | 112 | 19317 | 18.845 ng | 0.00 |
| 7) Phenol-d6 | 6.986 | 99 | 26053 | 18.914 ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.966 | 82 | 29358 | 18.926 ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.934 | 330 | 22352 | 19.423 ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.067 | 172 | 84929 | 19.718 ng | 0.00 |
| 79) Terphenyl-d14 | 19.806 | 244 | 174977 | 20.088 ng | 0.00 |
| **Target Compounds** | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.320 | 88 | 3907 | 9.636 ng | 90 |
| 3) Pyridine | 3.714 | 79 | 10914 | 10.016 ng | 92 |
| 4) n-Nitrosodimethylamine | 3.625 | 42 | 8097 | 10.250 ng | 99 |
| 6) Aniline | 7.145 | 93 | 16489 | 9.490 ng | 96 |
| 8) 2-Chlorophenol | 7.386 | 128 | 11988 | 9.524 ng | 92 |
| 9) Benzaldehyde | 6.963 | 77 | 13633 | 11.149 ng | 86 |
| 10) Phenol | 7.016 | 94 | 13252 | 9.120 ng | 94 |
| 11) bis(2-Chloroethyl)ether | 7.245 | 93 | 9040 | 9.186 ng | 89 |
| 12) 1,3-Dichlorobenzene | 7.709 | 146 | 13843 | 10.054 ng | 91 |
| 13) 1,4-Dichlorobenzene | 7.856 | 146 | 13607 | 9.847 ng | 97 |
| 14) 1,2-Dichlorobenzene | 8.173 | 146 | 13175 | 9.674 ng | 93 |
| 15) Benzyl Alcohol | 8.055 | 79 | 11608 | 9.151 ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.338 | 45 | 15268 | 9.625 ng | 95 |
| 17) 2-Methylphenol | 8.261 | 107 | 10084 | 9.584 ng | 92 |
| 18) Hexachloroethane | 8.896 | 117 | 5976 | 10.956 ng | 87 |
| 19) n-Nitroso-di-n-propyla... | 8.614 | 70 | 8658 | 9.398 ng | # 92 |
| 20) 3+4-Methylphenols | 8.590 | 107 | 13961 | 9.508 ng | 96 |
| 22) Acetophenone | 8.631 | 105 | 18753 | 9.286 ng | # 91 |
| 24) Nitrobenzene | 9.013 | 77 | 14519 | 9.386 ng | # 92 |
| 25) Isophorone | 9.530 | 82 | 27293 | 9.712 ng | # 95 |
| 26) 2-Nitrophenol | 9.718 | 139 | 7029 | 9.130 ng | 90 |
| 27) 2,4-Dimethylphenol | 9.783 | 122 | 10726 | 9.122 ng | 91 |
| 28) bis(2-Chloroethoxy)met... | 10.018 | 93 | 13354 | 9.323 ng | 93 |
| 29) 2,4-Dichlorophenol | 10.259 | 162 | 12712 | 9.349 ng | 95 |
| 30) 1,2,4-Trichlorobenzene | 10.470 | 180 | 13887 | 9.366 ng | # 89 |
| 31) Naphthalene | 10.652 | 128 | 40855 | 9.512 ng | 97 |
| 32) Benzoic acid | 9.889 | 122 | 6224m | 6.894 ng | |
| 33) 4-Chloroaniline | 10.764 | 127 | 16589 | 10.065 ng | # 91 |
| 34) Hexachlorobutadiene | 10.946 | 225 | 12067 | 9.503 ng | 97 |
| 35) Caprolactam | 11.510 | 113 | 4491 | 9.648 ng | # 85 |
| 36) 4-Chloro-3-methylphenol | 11.892 | 107 | 15870 | 9.597 ng | 93 |
| 37) 2-Methylnaphthalene | 12.268 | 142 | 32141 | 9.749 ng | 93 |
| 38) 1-Methylnaphthalene | 12.486 | 142 | 32614 | 9.921 ng | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 12.638 | 216 | 19175 | 9.354 ng | 95 |
| 41) Hexachlorocyclopentadiene | 12.621 | 237 | 8845 | 8.249 ng | 96 |
| 43) 2,4,6-Trichlorophenol | 12.879 | 196 | 12393 | 9.457 ng | 95 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064481.D
Acq On : 2 Oct 2025 15:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli

Quant Time: Oct 02 17:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.956 | 196 | 14346 | 9.806 ng | # | 94 |
| 46) 1,1'-Biphenyl | 13.279 | 154 | 44053 | 9.648 ng | | 95 |
| 47) 2-Chloronaphthalene | 13.320 | 162 | 35050 | 10.281 ng | | 97 |
| 48) 2-Nitroaniline | 13.526 | 65 | 11482 | 9.868 ng | | 93 |
| 49) Acenaphthylene | 14.172 | 152 | 48705 | 9.624 ng | # | 93 |
| 50) Dimethylphthalate | 13.902 | 163 | 50268 | 10.110 ng | | 97 |
| 51) 2,6-Dinitrotoluene | 14.019 | 165 | 10337 | 9.980 ng | | 98 |
| 52) Acenaphthene | 14.513 | 154 | 34887 | 9.922 ng | | 96 |
| 53) 3-Nitroaniline | 14.348 | 138 | 9342 | 9.780 ng | | 94 |
| 54) 2,4-Dinitrophenol | 14.566 | 184 | 8424 | 11.216 ng | # | 71 |
| 55) Dibenzofuran | 14.848 | 168 | 57456 | 9.897 ng | | 98 |
| 56) 4-Nitrophenol | 14.665 | 139 | 6104 | 8.116 ng | | 89 |
| 57) 2,4-Dinitrotoluene | 14.812 | 165 | 15843 | 10.006 ng | | 97 |
| 58) Fluorene | 15.494 | 166 | 47958 | 9.937 ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.071 | 232 | 14205 | 9.514 ng | | 97 |
| 60) Diethylphthalate | 15.271 | 149 | 53695 | 10.066 ng | # | 94 |
| 61) 4-Chlorophenyl-phenyle... | 15.488 | 204 | 25669 | 9.742 ng | | 94 |
| 62) 4-Nitroaniline | 15.511 | 138 | 9390 | 9.431 ng | # | 85 |
| 63) Azobenzene | 15.782 | 77 | 41235 | 9.982 ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 15.576 | 198 | 10315 | 8.960 ng | | 79 |
| 66) n-Nitrosodiphenylamine | 15.705 | 169 | 42881 | 9.712 ng | | 95 |
| 67) 4-Bromophenyl-phenylether | 16.381 | 248 | 18933 | 9.731 ng | | 92 |
| 68) Hexachlorobenzene | 16.499 | 284 | 21542 | 9.676 ng | | 99 |
| 69) Atrazine | 16.651 | 200 | 19877 | 10.119 ng | | 92 |
| 70) Pentachlorophenol | 16.845 | 266 | 9789 | 7.520 ng | # | 84 |
| 71) Phenanthrene | 17.227 | 178 | 84477 | 9.770 ng | | 96 |
| 72) Anthracene | 17.321 | 178 | 84981 | 9.797 ng | | 100 |
| 73) Carbazole | 17.591 | 167 | 73994 | 9.869 ng | | 97 |
| 74) Di-n-butylphthalate | 18.155 | 149 | 89166 | 9.742 ng | | 97 |
| 75) Fluoranthene | 19.236 | 202 | 101360 | 9.813 ng | | 98 |
| 77) Benzidine | 19.425 | 184 | 32380 | 7.894 ng | | 98 |
| 78) Pyrene | 19.601 | 202 | 109573 | 10.242 ng | | 97 |
| 80) Butylbenzylphthalate | 20.500 | 149 | 36112 | 9.522 ng | | 95 |
| 81) Benzo(a)anthracene | 21.393 | 228 | 102096 | 9.700 ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 21.316 | 252 | 34449 | 9.670 ng | | 99 |
| 83) Chrysene | 21.452 | 228 | 98898 | 9.908 ng | | 96 |
| 84) Bis(2-ethylhexyl)phtha... | 21.316 | 149 | 52514 | 9.814 ng | | 94 |
| 85) Di-n-octyl phthalate | 22.439 | 149 | 86988 | 9.673 ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.732 | 276 | 117303 | 9.480 ng | # | 75 |
| 88) Benzo(b)fluoranthene | 23.449 | 252 | 96327 | 9.525 ng | | 97 |
| 89) Benzo(k)fluoranthene | 23.508 | 252 | 96178 | 9.442 ng | | 98 |
| 90) Benzo(a)pyrene | 24.248 | 252 | 88822 | 9.529 ng | # | 93 |
| 91) Dibenzo(a,h)anthracene | 27.779 | 278 | 93585 | 9.457 ng | | 97 |
| 92) Benzo(g,h,i)perylene | 28.767 | 276 | 93612 | 9.735 ng | # | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

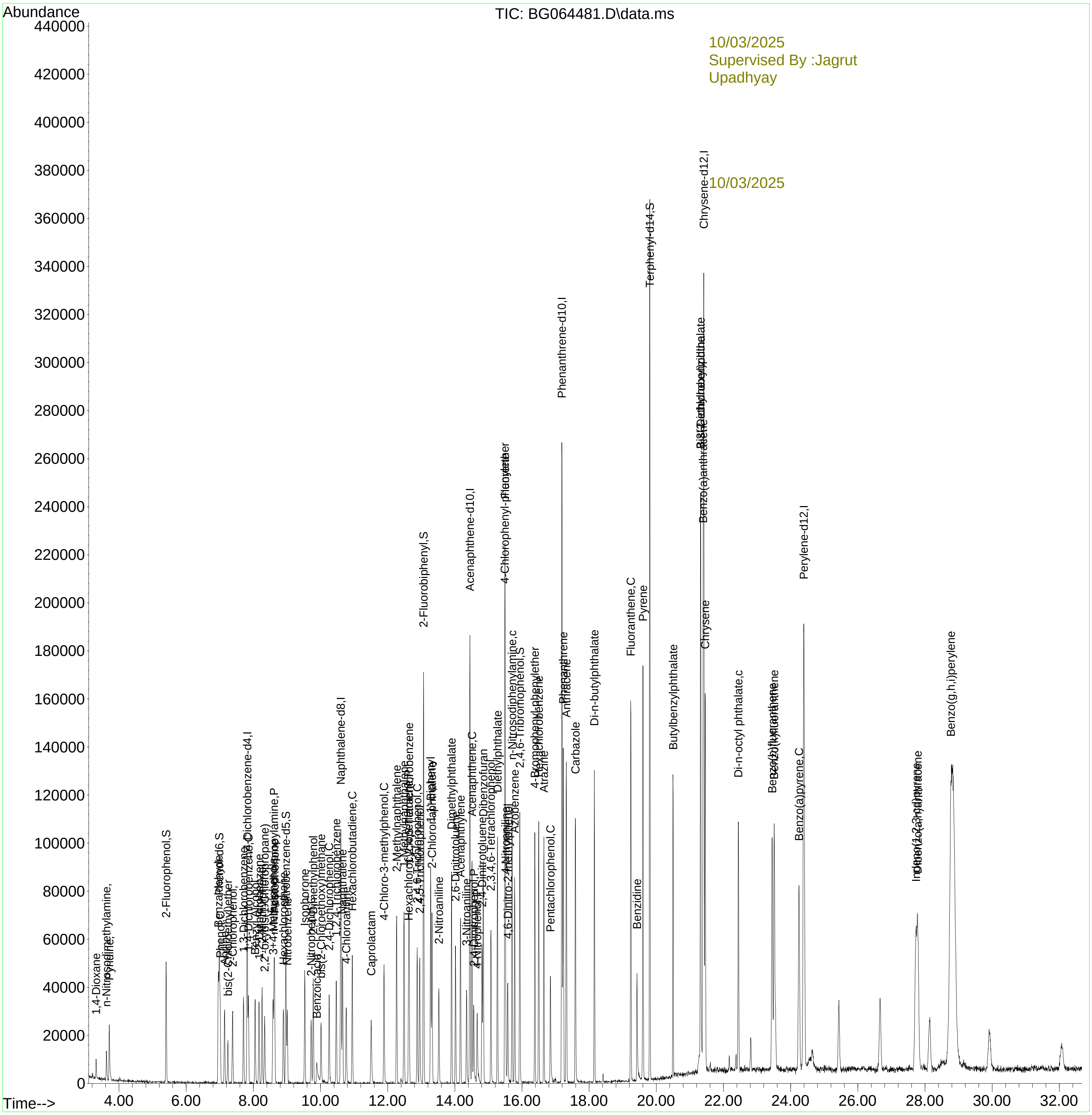
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064481.D
Acq On : 2 Oct 2025 15:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 10 Sample Multiplier: 1

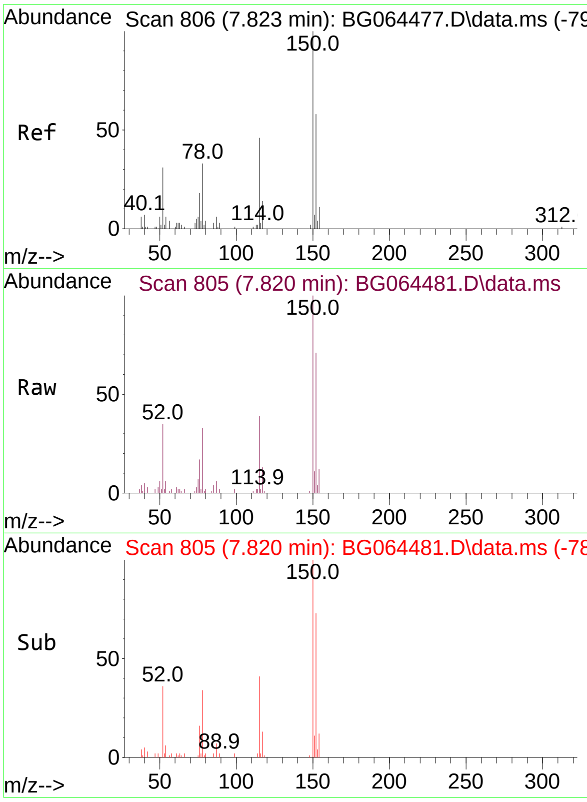
Quant Time: Oct 02 17:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli



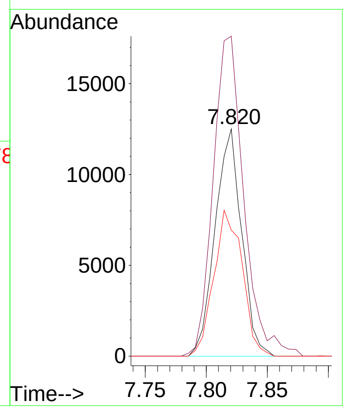
ICAL Form




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.820 min Scan# 80
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:152 Resp: 18970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 140.9 | 138.6 | 207.8 |
| 115 | 55.5 | 63.4 | 95.2# |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli
10/03/2025
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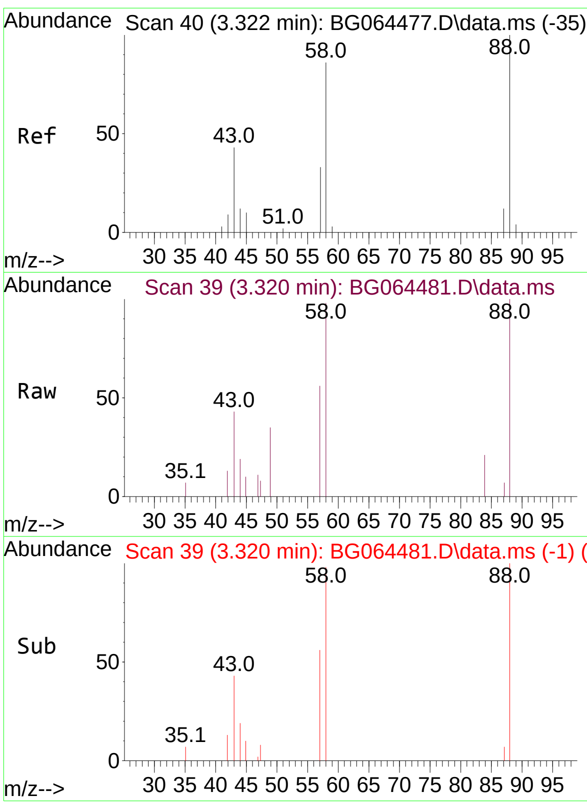
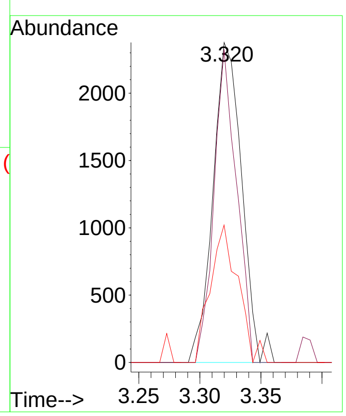
10/03/2025




#2
1,4-Dioxane
Concen: 9.636 ng
RT: 3.320 min Scan# 39
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 88 Resp: 3907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 77.0 | 69.8 | 104.6 |
| 43 | 41.6 | 37.4 | 56.0 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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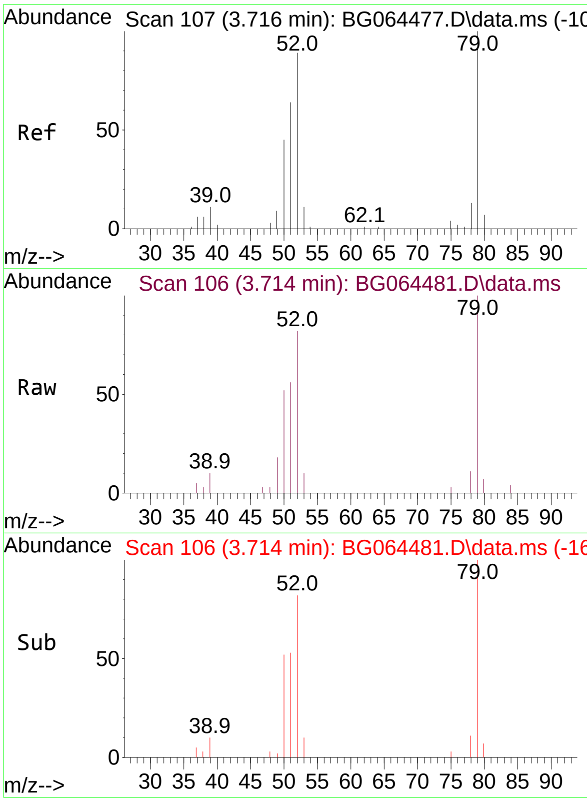
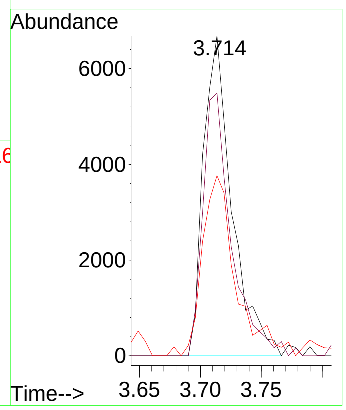
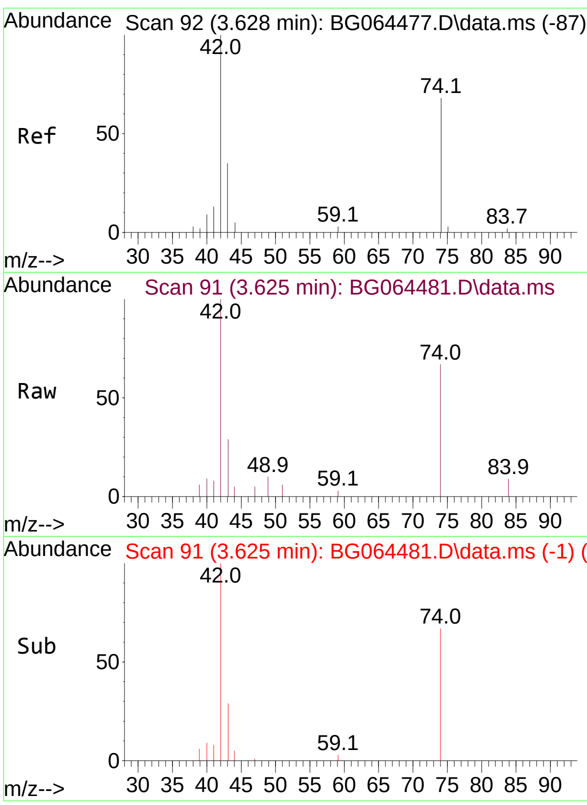
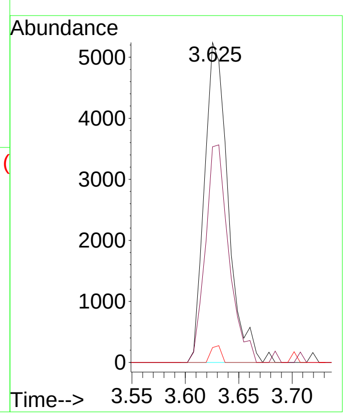



```
#3
Pyridine
Concen:   10.016 ng
RT:   3.714 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    BG064481.D
Acq:  2 Oct 2025   15:49

Tgt Ion: 79 Resp:    1091
Ion   Ratio   Lower   Upper
 79   100
 52    82.2    71.0   106.4
 51    56.3    51.0    76.6
```

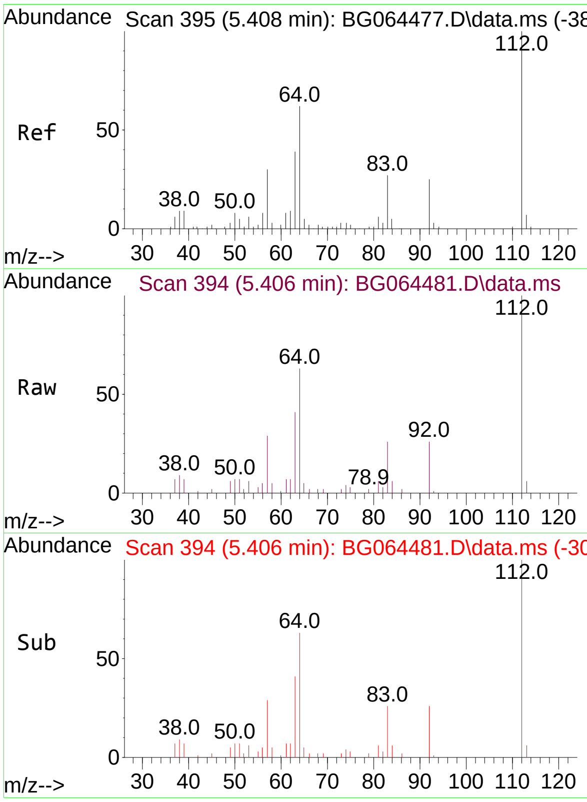



```
#4
n-Nitrosodimethylamine
Concen:   10.250 ng
RT:   3.625 min   Scan# 91
Delta R.T.   0.000 min
Lab File:    BG064481.D
Acq:  2 Oct 2025   15:49

Tgt Ion: 42 Resp:    8097
Ion   Ratio   Lower   Upper
 42   100
 74    67.4    54.2    81.4
 44     4.7     4.2     6.2
```



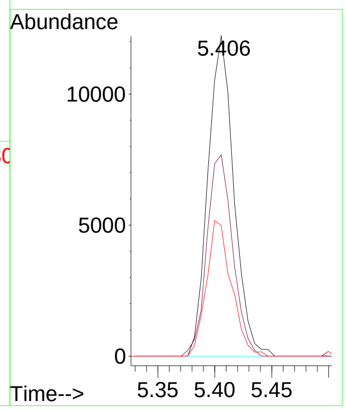
ICAL Form




#5
2-Fluorophenol
Concen: 18.845 ng
RT: 5.406 min Scan# 39
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:112 Resp: 19311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 62.9 | 49.8 | 74.8 |
| 63 | 40.9 | 31.3 | 46.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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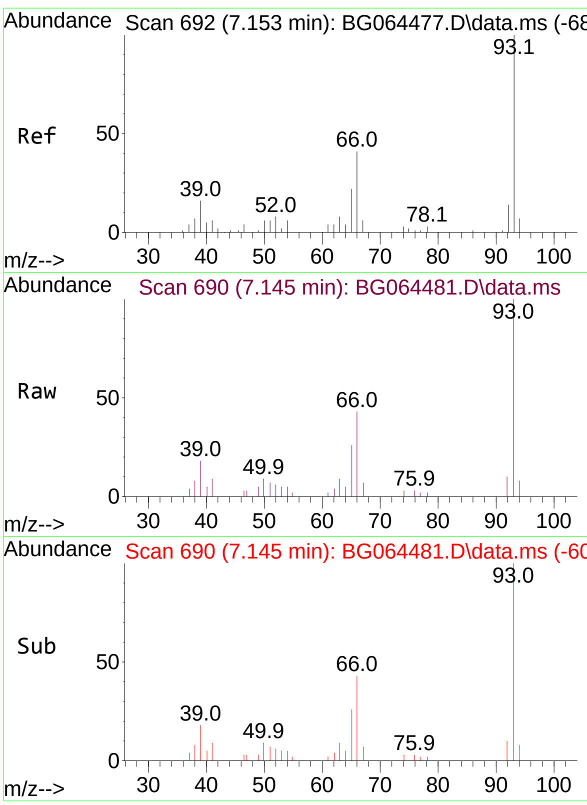
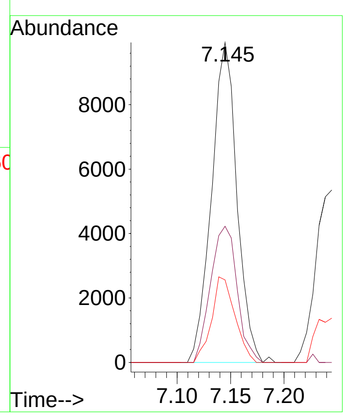


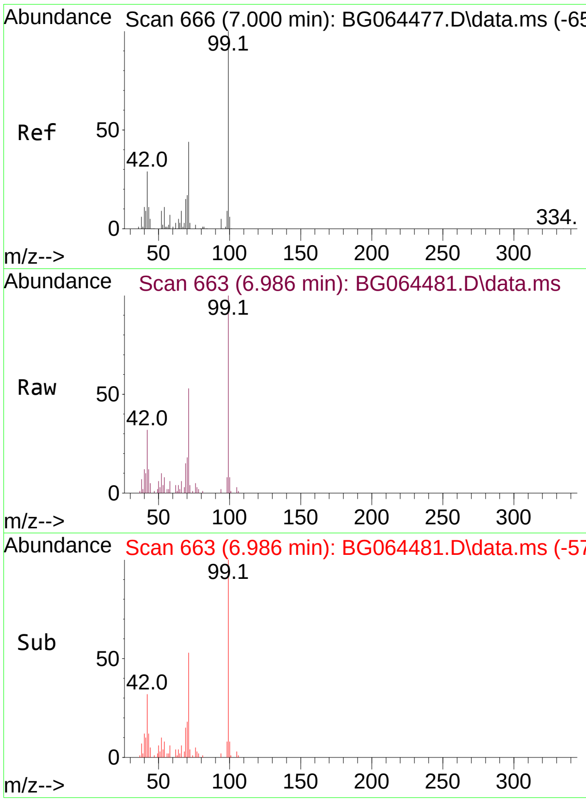

#6
Aniline
Concen: 9.490 ng
RT: 7.145 min Scan# 690
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 93 Resp: 16489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 42.5 | 33.0 | 49.4 |
| 65 | 25.8 | 17.5 | 26.3 |



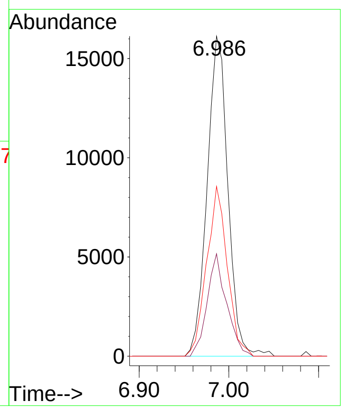
ICAL Form




#7
Phenol-d6
Concen: 18.914 ng
RT: 6.986 min Scan# 66
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 99 Resp: 2605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.0 | 22.9 | 34.3 |
| 71 | 53.0 | 35.4 | 53.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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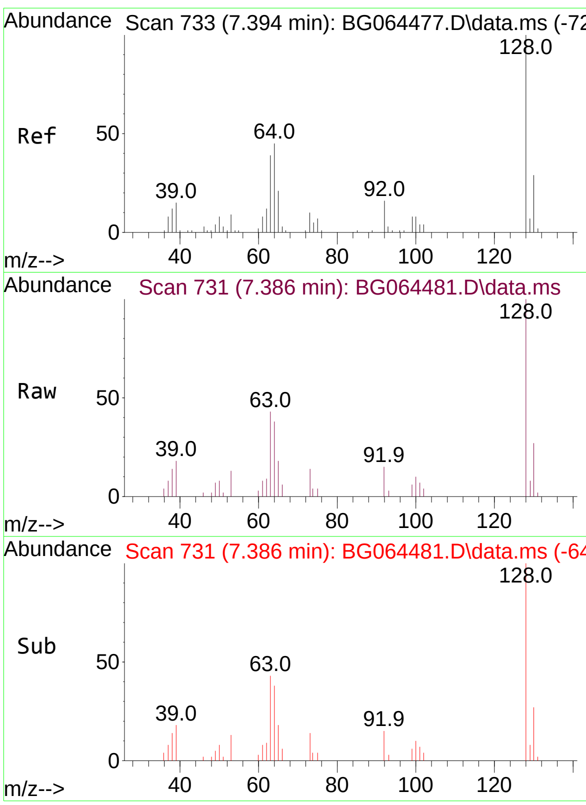
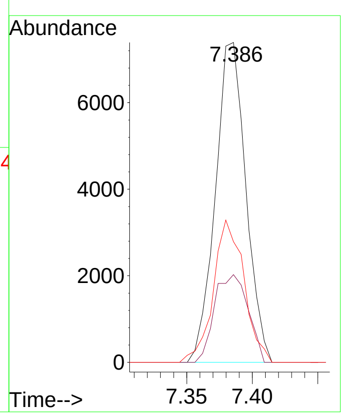
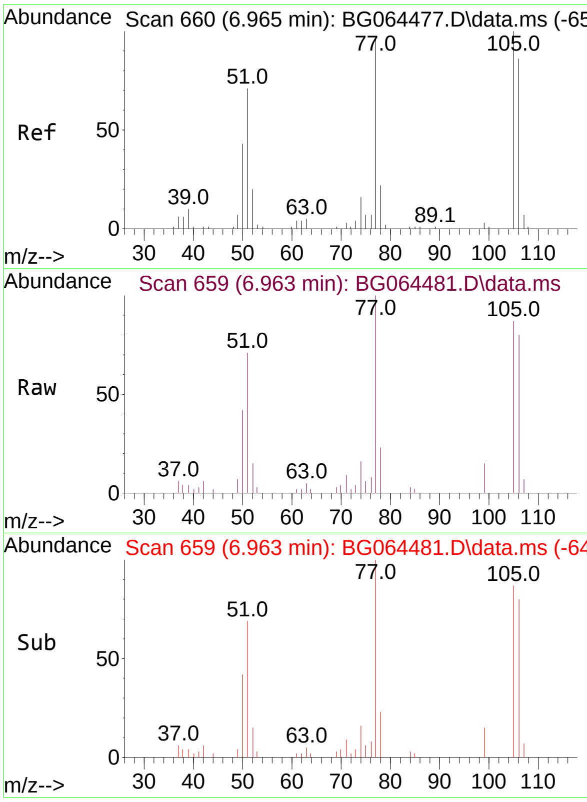



#8
2-Chlorophenol
Concen: 9.524 ng
RT: 7.386 min Scan# 731
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:128 Resp: 11988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 27.4 | 9.2 | 49.2 |
| 64 | 37.7 | 25.5 | 65.5 |

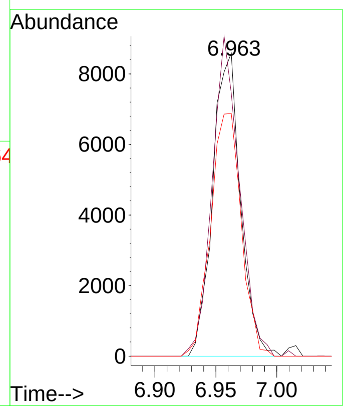





#9
Benzaldehyde
Concen: 11.149 ng
RT: 6.963 min Scan# 65
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 77 Resp: 1363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 86.7 | 83.7 | 123.7 |
| 106 | 80.0 | 69.4 | 109.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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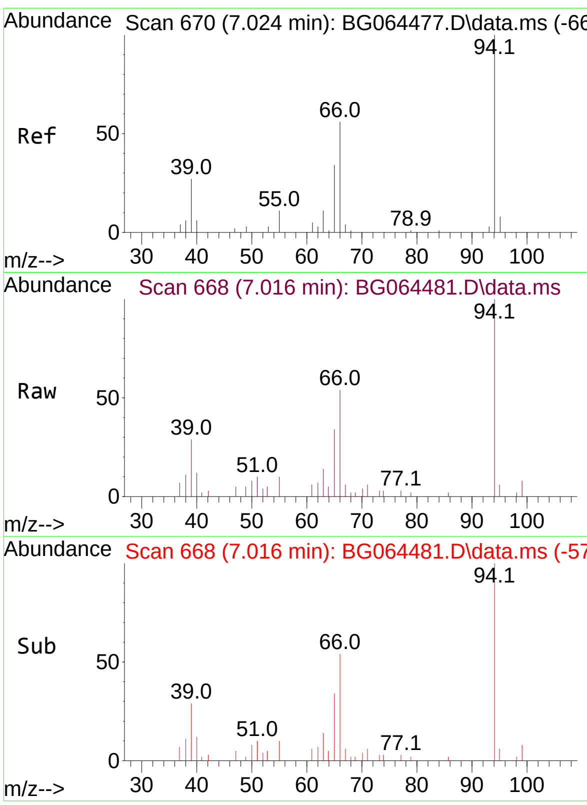
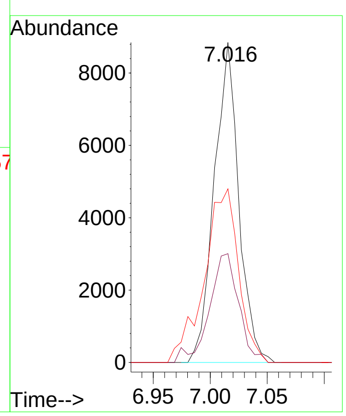
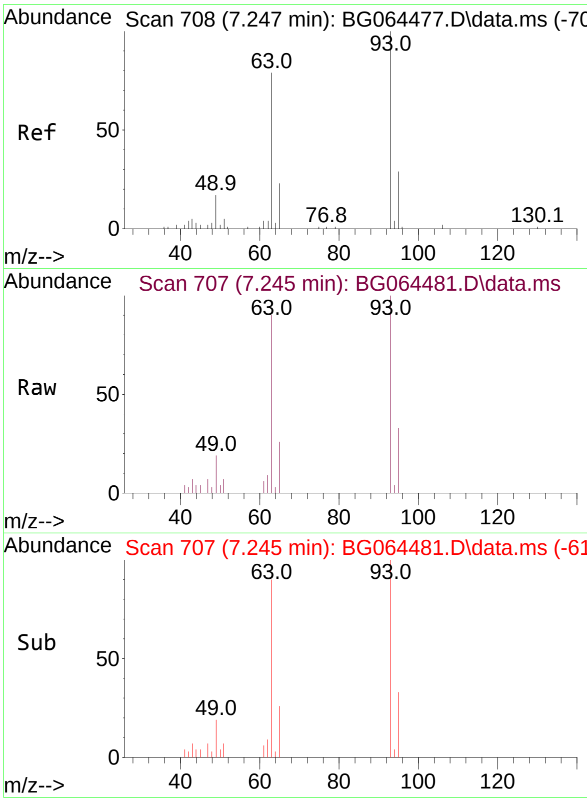



#10
Phenol
Concen: 9.120 ng
RT: 7.016 min Scan# 668
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 94 Resp: 13252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 34.0 | 14.8 | 54.8 |
| 66 | 54.2 | 41.4 | 81.4 |

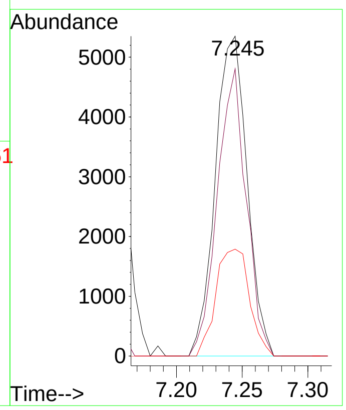





#11
bis(2-Chloroethyl)ether
Concen: 9.186 ng
RT: 7.245 min Scan# 70
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 93 Resp: 9040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 89.8 | 59.5 | 99.5 |
| 95 | 33.4 | 8.8 | 48.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
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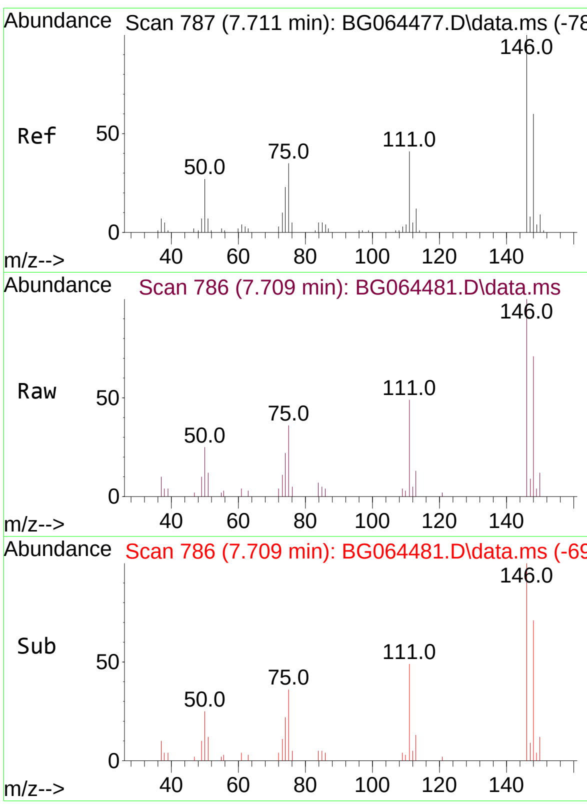
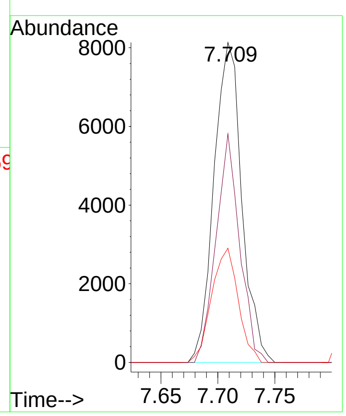



#12
1,3-Dichlorobenzene
Concen: 10.054 ng
RT: 7.709 min Scan# 786
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:146 Resp: 13843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 71.4 | 48.4 | 72.6 |
| 75 | 35.7 | 28.3 | 42.5 |



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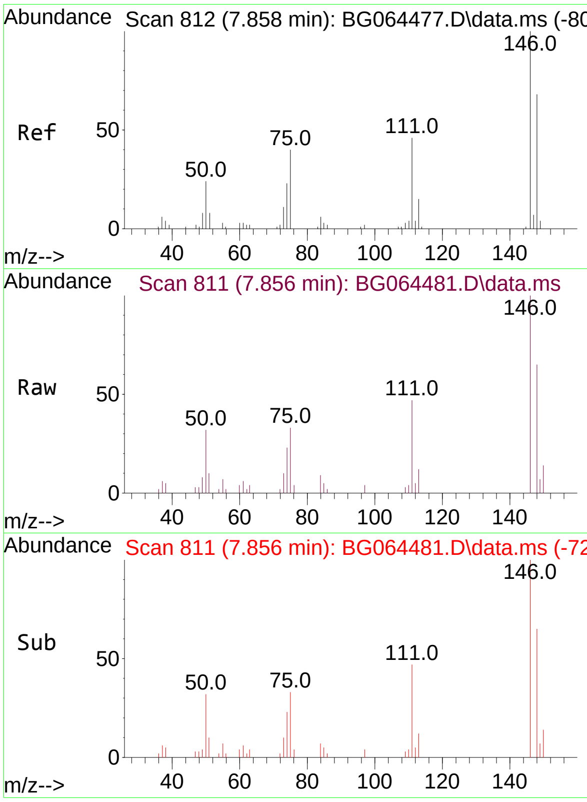


#13
1,4-Dichlorobenzene
Concen: 9.847 ng
RT: 7.856 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:146 Resp: 1360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.1 | 54.4 | 81.6 |
| 111 | 46.7 | 36.5 | 54.7 |

**Instrument :**
BNA_G
**ClientSampleId :**
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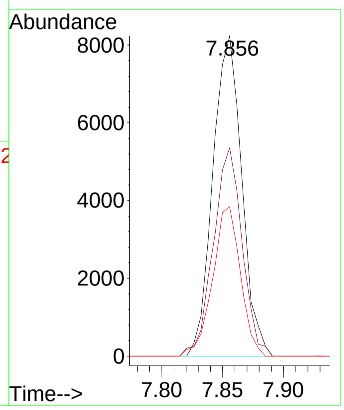
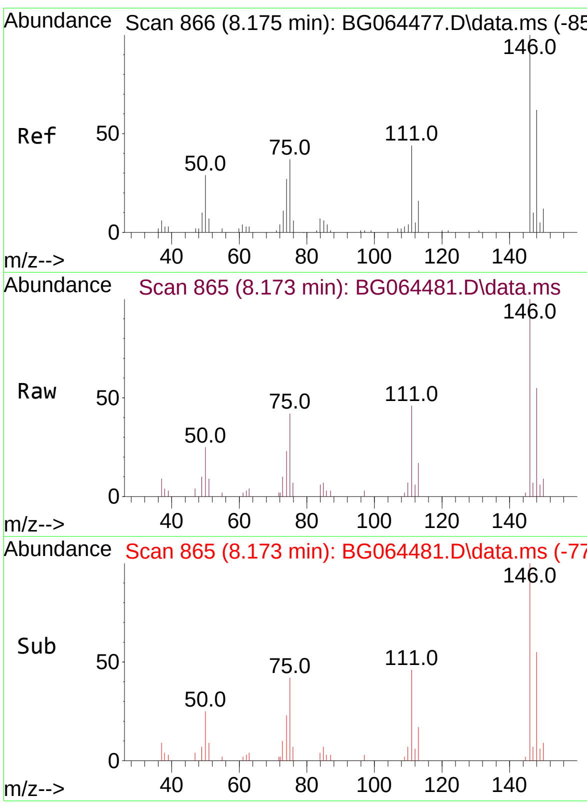
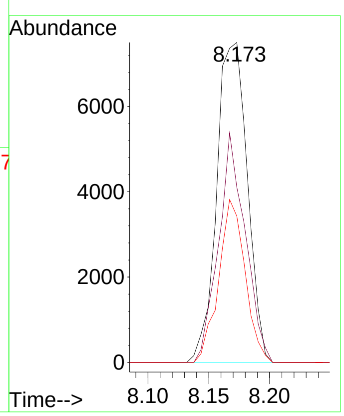


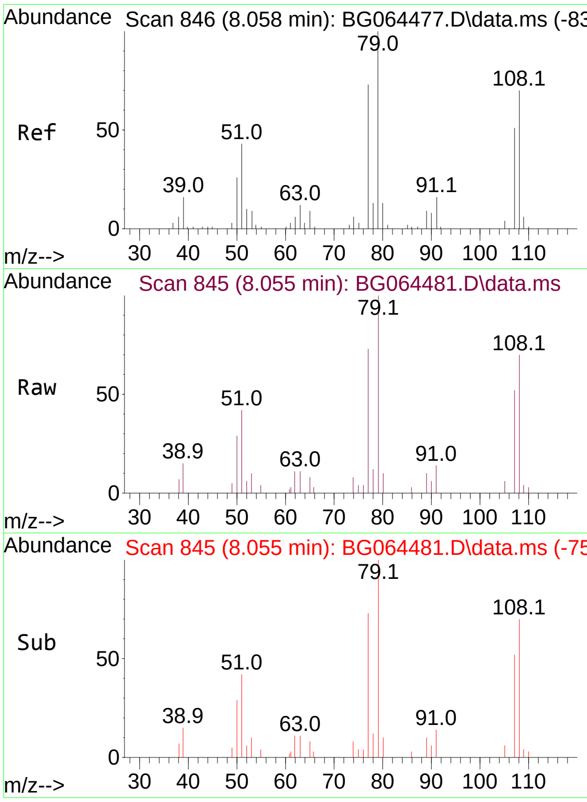




#14
1,2-Dichlorobenzene
Concen: 9.674 ng
RT: 8.173 min Scan# 865
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:146 Resp: 13175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 54.7 | 50.0 | 75.0 |
| 111 | 45.7 | 35.0 | 52.4 |

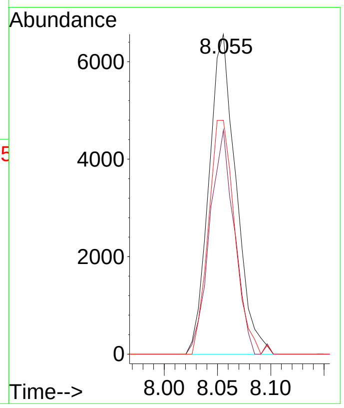





#15
Benzyl Alcohol
Concen: 9.151 ng
RT: 8.055 min Scan# 84
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 79 Resp: 1160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 70.0 | 56.4 | 84.6 |
| 77 | 73.1 | 58.3 | 87.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
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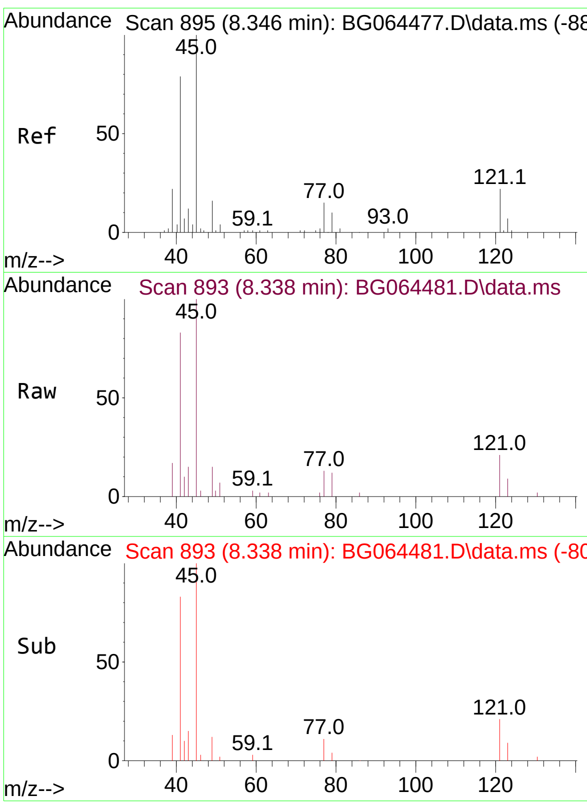
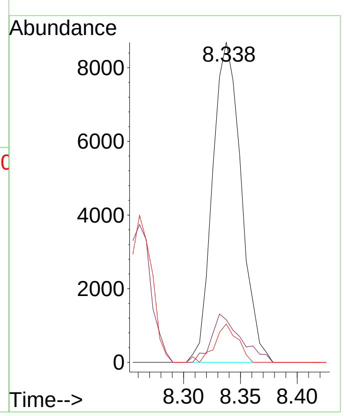



#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.625 ng
RT: 8.338 min Scan# 893
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 45 Resp: 15268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 13.3 | 0.0 | 35.6 |
| 79 | 12.0 | 0.0 | 30.7 |



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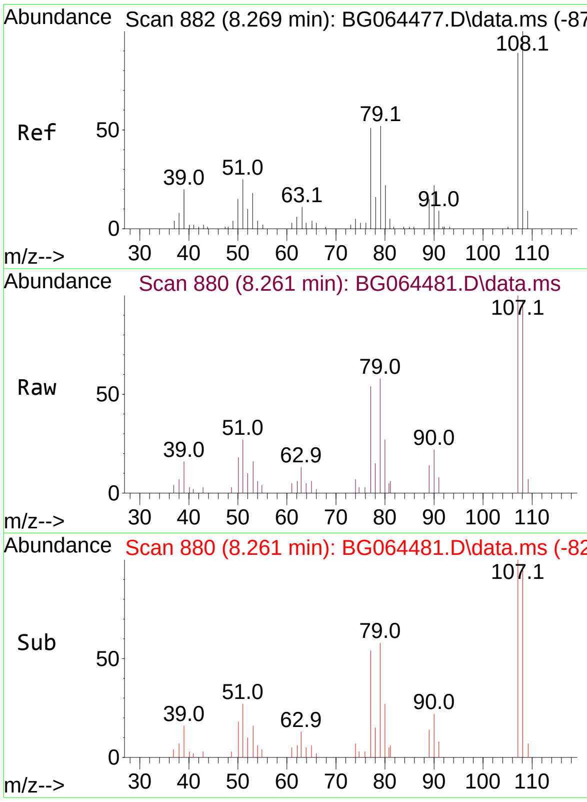
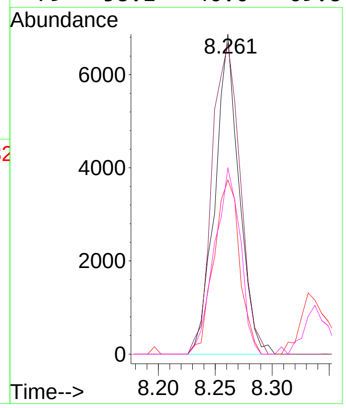


#17
2-Methylphenol
Concen: 9.584 ng
RT: 8.261 min Scan# 88
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:107 Resp: 10084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 97.0 | 90.3 | 135.5 |
| 77 | 54.4 | 46.0 | 69.0 |
| 79 | 58.1 | 46.6 | 69.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
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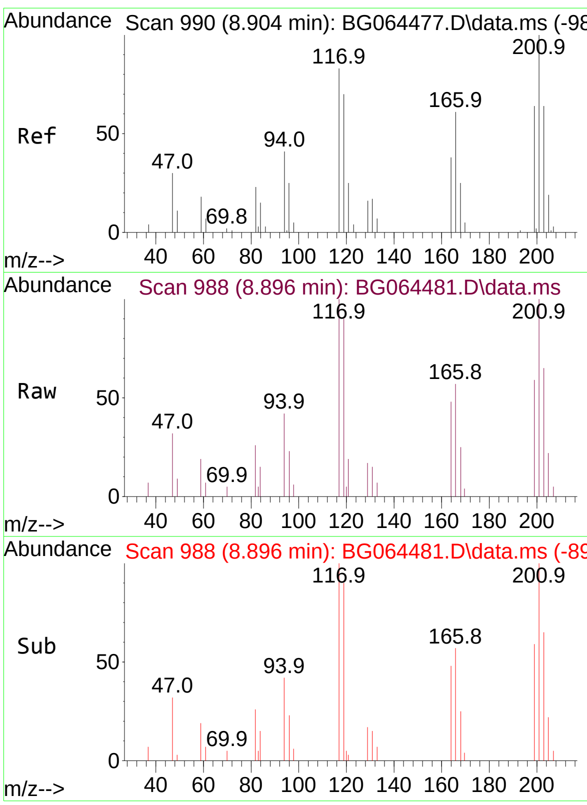
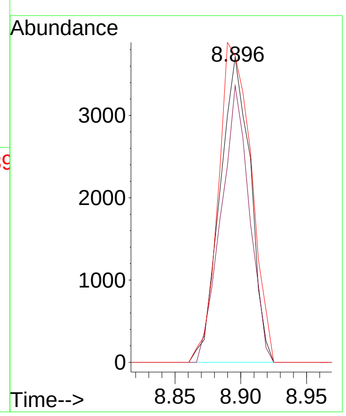


#18
Hexachloroethane
Concen: 10.956 ng
RT: 8.896 min Scan# 988
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:117 Resp: 5976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.7 | 67.4 | 101.0 |
| 201 | 100.5 | 95.9 | 143.9 |



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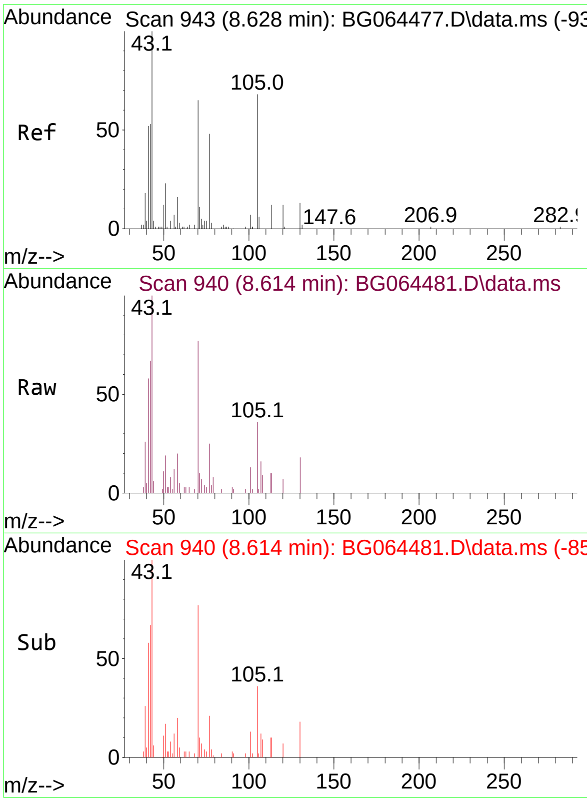
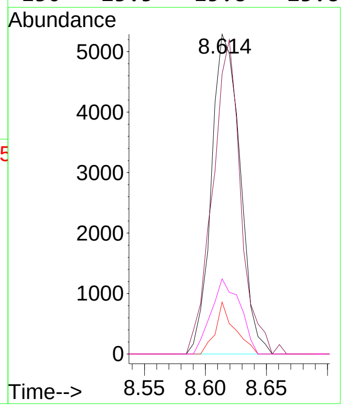



#19
n-Nitroso-di-n-propylamine
Concen:    9.398 ng
RT:   8.614 min   Scan# 94
Delta R.T.   0.000 min
Lab File:    BG064481.D
Acq:   2 Oct 2025   15:49

Tgt Ion: 70 Resp:    8658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 87.5 | 64.9 | 97.3 |
| 101 | 16.3 | 8.7 | 13.1# |
| 130 | 23.5 | 15.8 | 23.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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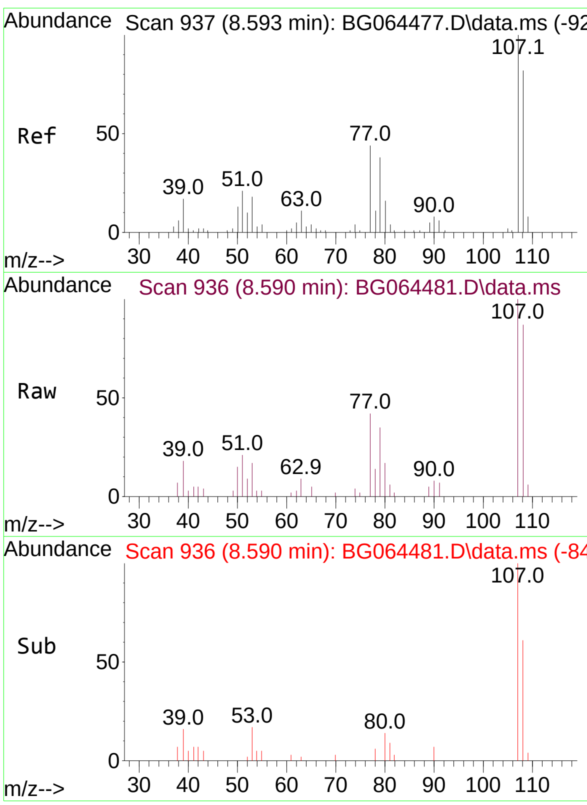
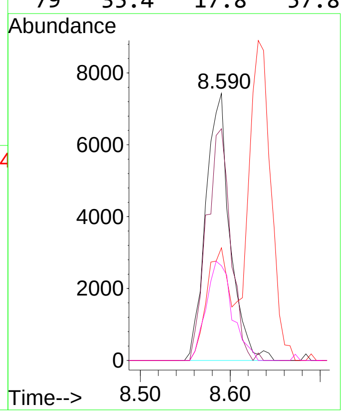
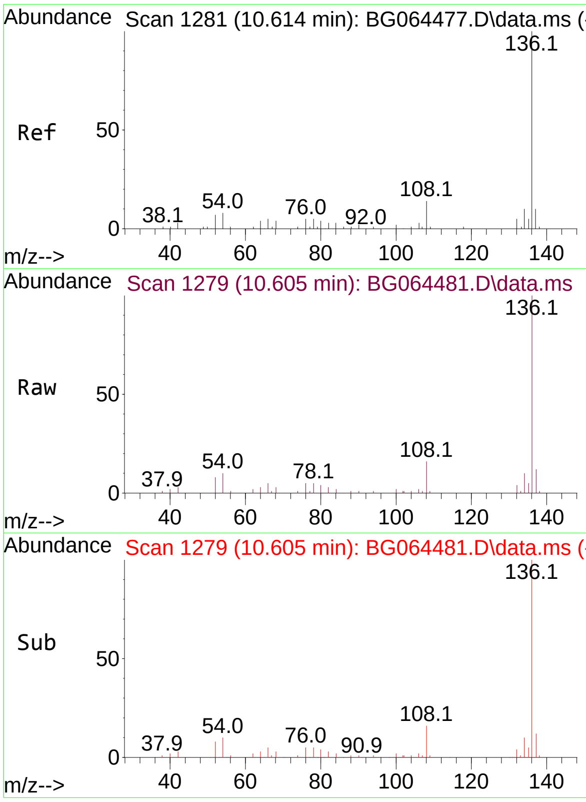



#20
3+4-Methylphenols
Concen:    9.508 ng
RT:   8.590 min   Scan# 936
Delta R.T.   0.000 min
Lab File:    BG064481.D
Acq:   2 Oct 2025   15:49

Tgt Ion:107 Resp:    13961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 86.8 | 62.1 | 102.1 |
| 77 | 42.2 | 23.5 | 63.5 |
| 79 | 35.4 | 17.8 | 57.8 |






```
#21
Naphthalene-d8
Concen:   20.000 ng
RT:  10.605 min  Scan# 12
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:136 Resp:   83408
Ion  Ratio  Lower  Upper
136  100
137   12.2    8.3   12.5
 54   10.3    6.2    9.4#
 68    2.6    3.0    4.4#
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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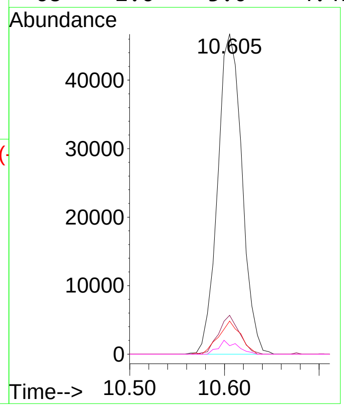


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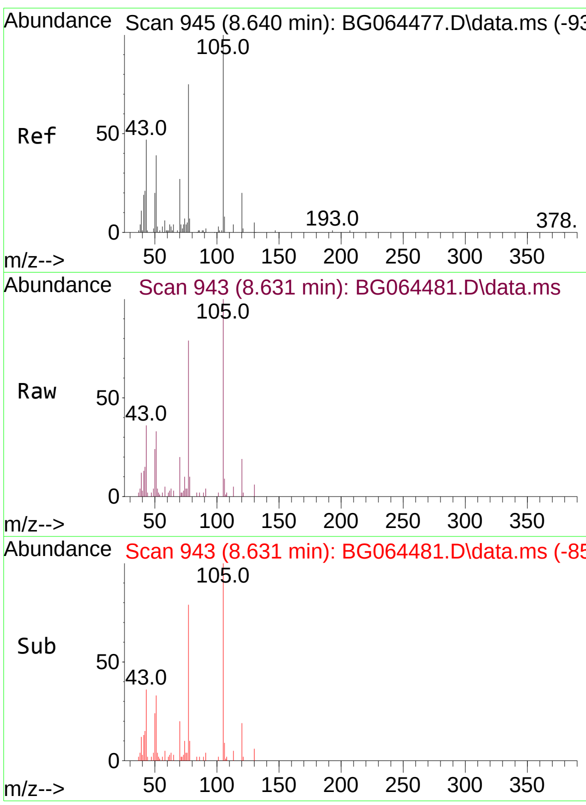
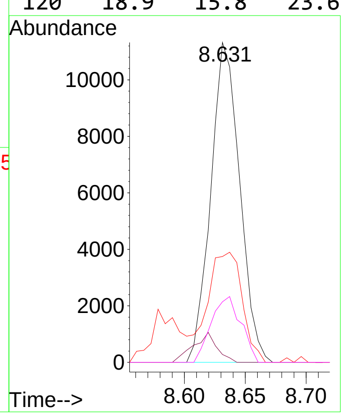
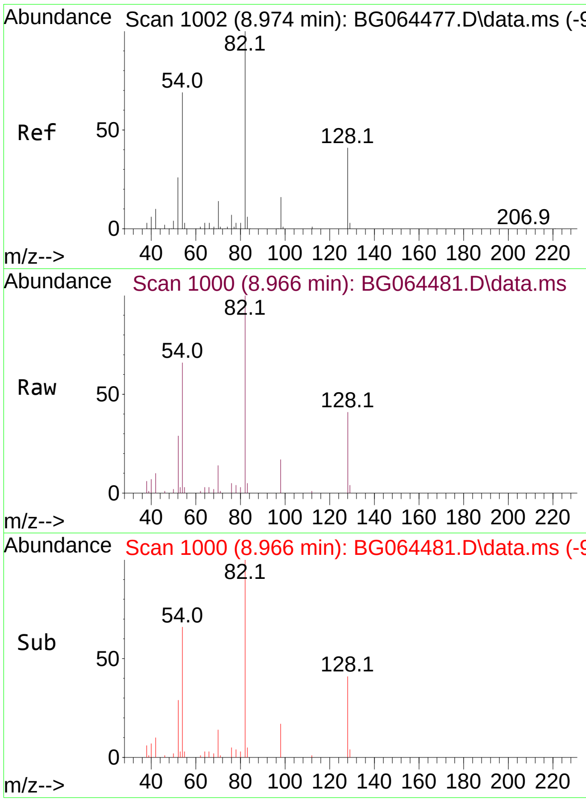



```
#22
Acetophenone
Concen:    9.286 ng
RT:   8.631 min  Scan# 943
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:105 Resp:   18753
Ion  Ratio  Lower  Upper
105  100
 71    2.5    2.8    4.2#
 51   33.1   33.0   49.4
120   18.9   15.8   23.6
```






#23
Nitrobenzene-d5
Concen: 18.926 ng
RT: 8.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 82 Resp: 2935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.6 | 33.1 | 49.7 |
| 54 | 65.5 | 55.4 | 83.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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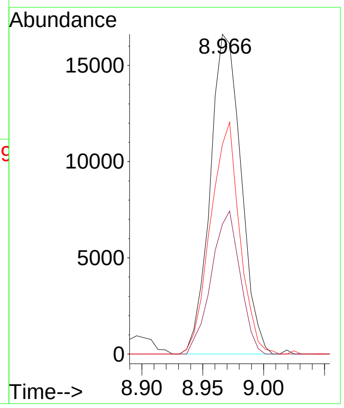
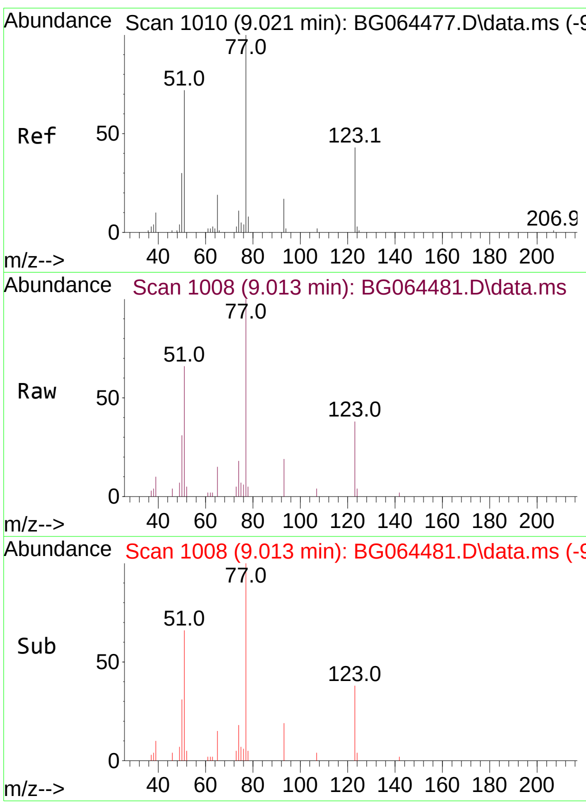
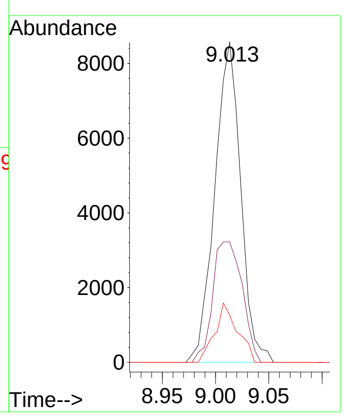


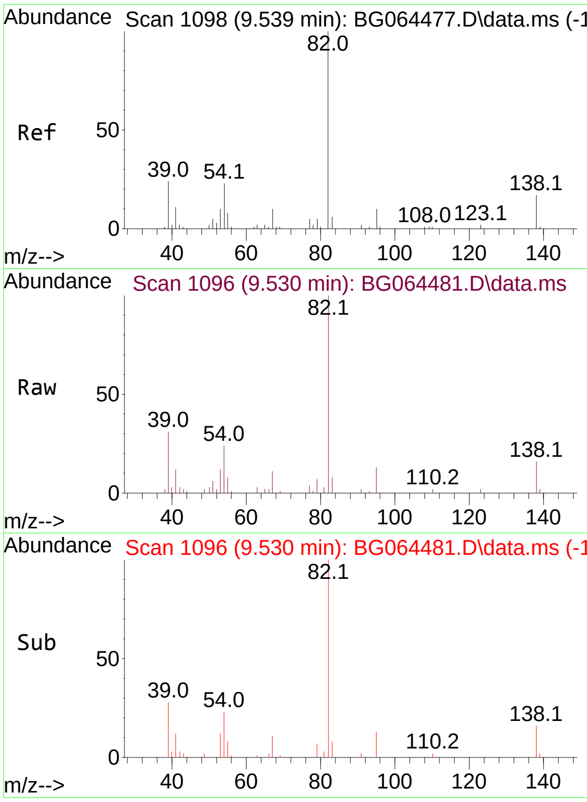




#24
Nitrobenzene
Concen: 9.386 ng
RT: 9.013 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 77 Resp: 14519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 37.7 | 34.4 | 51.6 |
| 65 | 14.8 | 14.8 | 22.2# |






#25
Isophorone
Concen: 9.712 ng
RT: 9.530 min Scan# 10
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 82 Resp: 27293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 13.4 | 7.8 | 11.8# |
| 138 | 16.5 | 13.8 | 20.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
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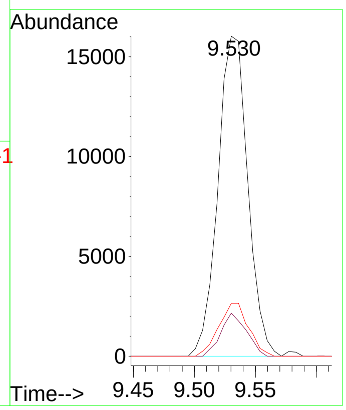
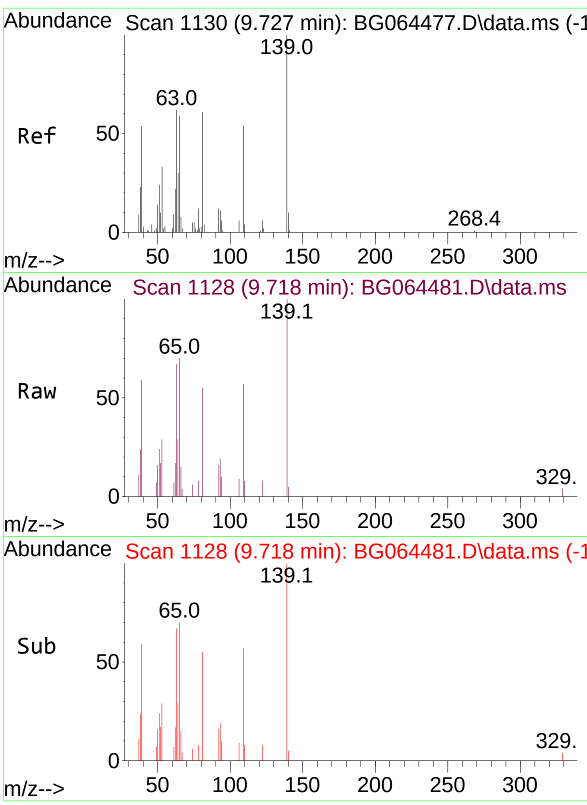
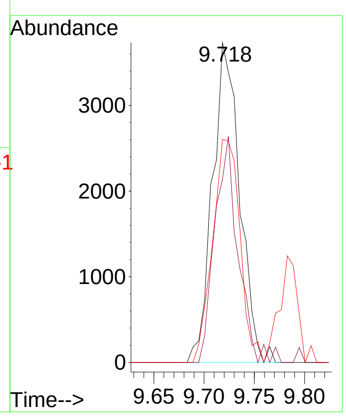



#26
2-Nitrophenol
Concen: 9.130 ng
RT: 9.718 min Scan# 1128
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:139 Resp: 7029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 57.2 | 43.0 | 64.6 |
| 65 | 69.7 | 47.4 | 71.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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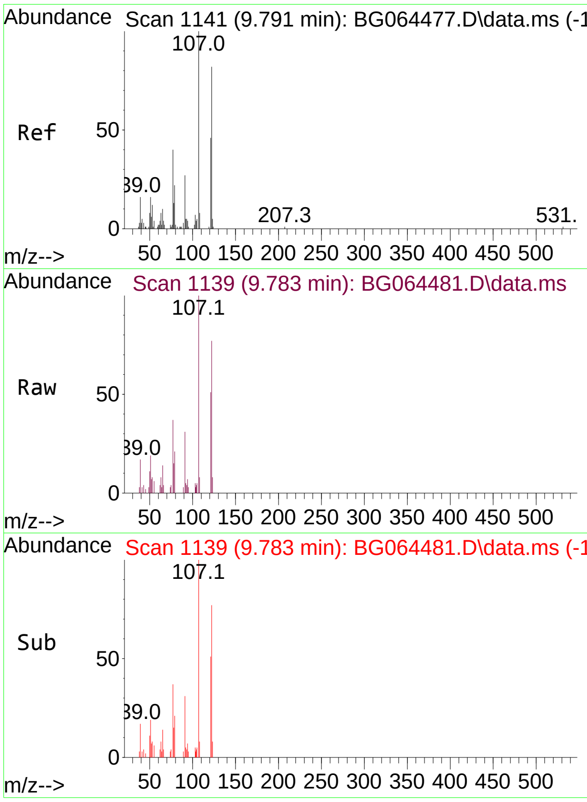
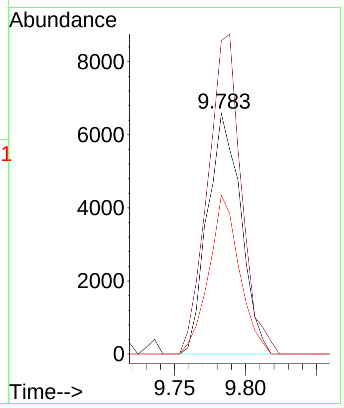
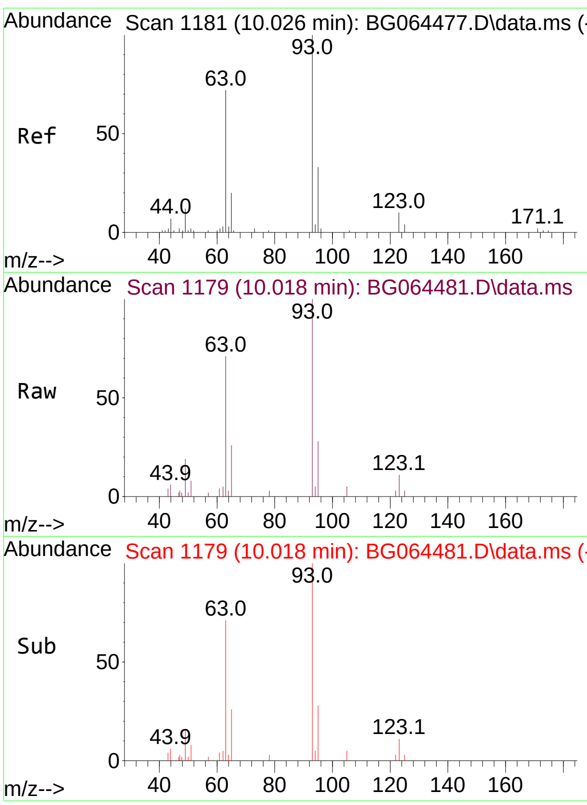



#27
2,4-Dimethylphenol
Concen: 9.122 ng
RT: 9.783 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:122 Resp: 10726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 130.3 | 98.3 | 147.5 |
| 121 | 66.0 | 44.7 | 67.1 |

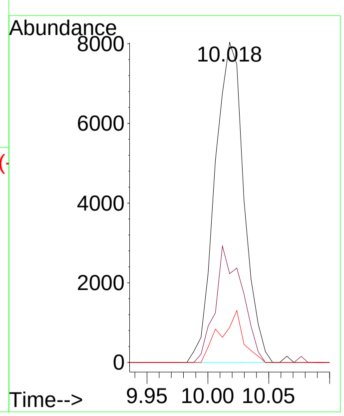


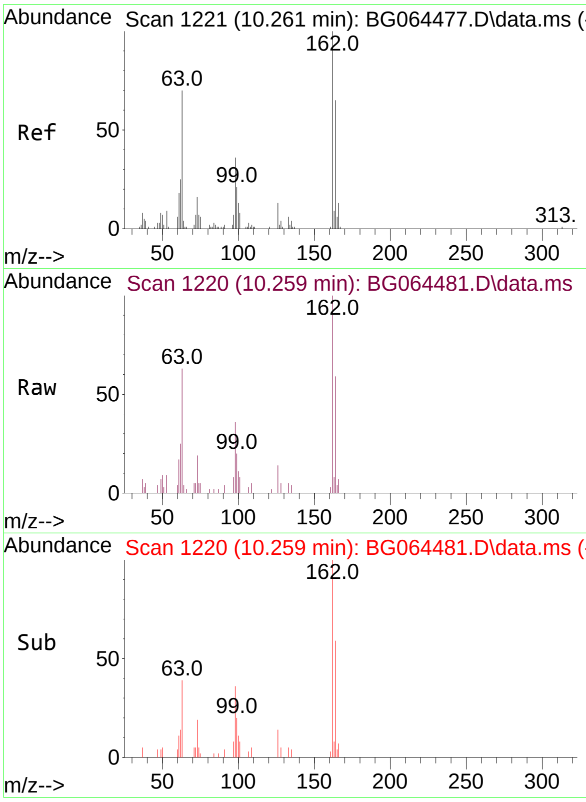




#28
bis(2-Chloroethoxy)methane
Concen: 9.323 ng
RT: 10.018 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 93 Resp: 13354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 27.7 | 26.5 | 39.7 |
| 123 | 10.9 | 8.9 | 13.3 |






#29
2,4-Dichlorophenol
Concen: 9.349 ng
RT: 10.259 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:162 Resp: 1271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 59.0 | 45.4 | 85.4 |
| 98 | 36.1 | 16.4 | 56.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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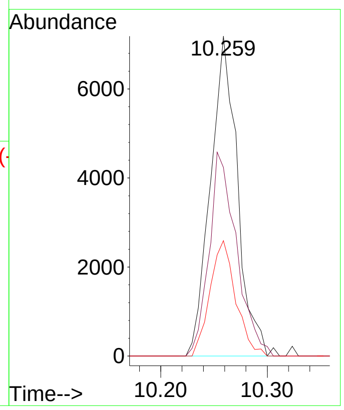


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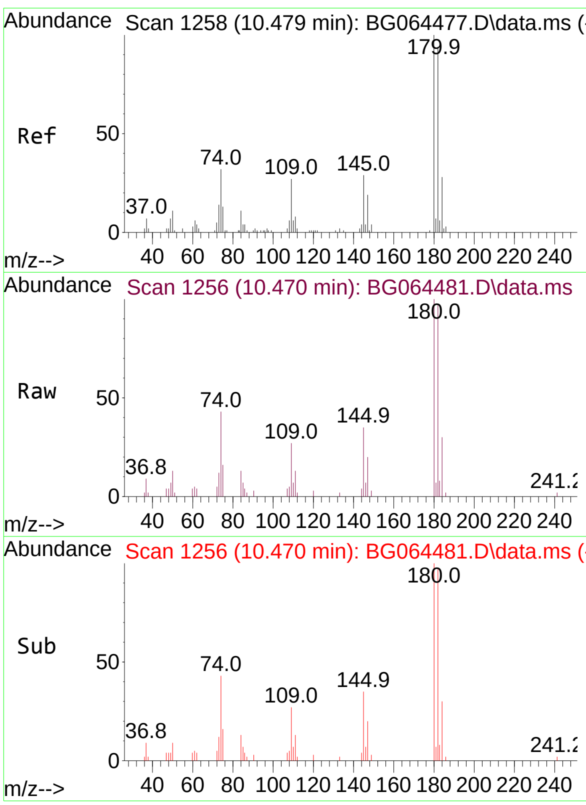
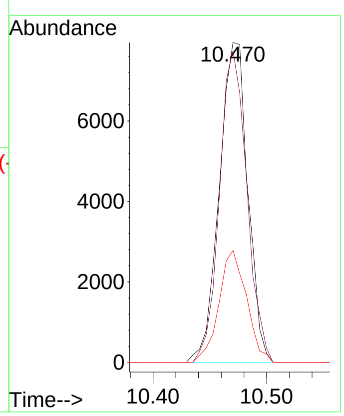
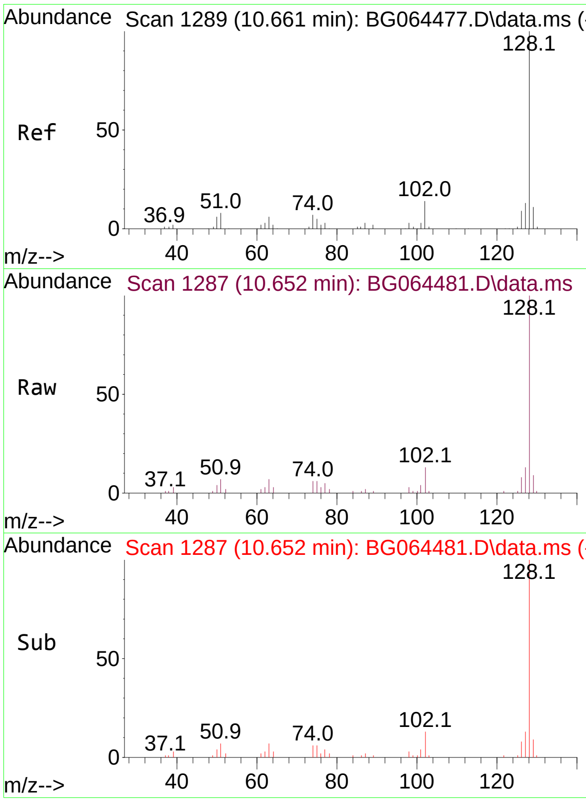



#30
1,2,4-Trichlorobenzene
Concen: 9.366 ng
RT: 10.470 min Scan# 1256
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:180 Resp: 13887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 105.1 | 75.4 | 113.2 |
| 145 | 35.0 | 23.2 | 34.8# |

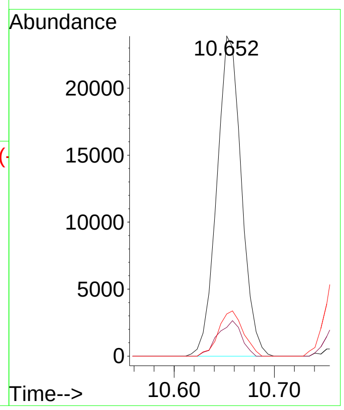





#31
Naphthalene
Concen:    9.512 ng
RT:  10.652 min   Scan# 12
Delta R.T.   0.000 min
Lab File:    BG064481.D
Acq:  2 Oct 2025   15:49

Tgt Ion:128 Resp:   40855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 9.0 | 8.7 | 13.1 |
| 127 | 13.2 | 10.2 | 15.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Supervised By :Jagrut Upadhyay

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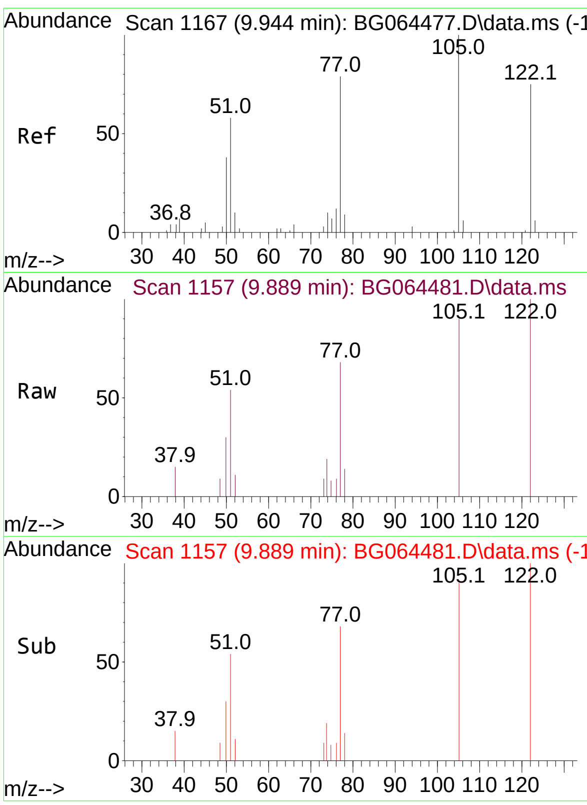
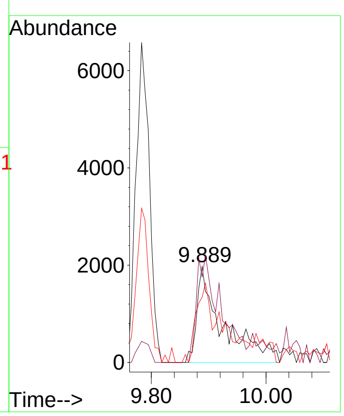


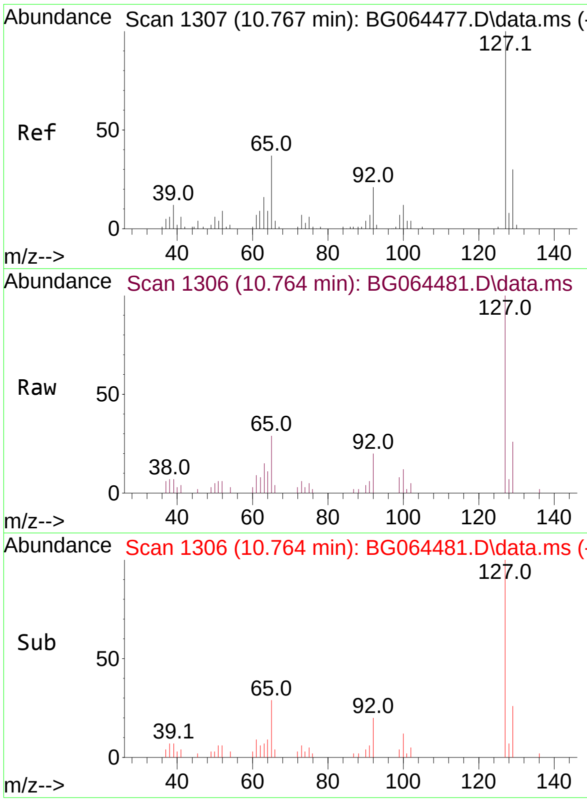

#32
Benzoic acid
Concen:    6.894 ng  m
RT:   9.889 min   Scan# 1157
Delta R.T.   0.000 min
Lab File:    BG064481.D
Acq:  2 Oct 2025   15:49

Tgt Ion:122 Resp:    6224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 89.5 | 113.9 | 153.9# |
| 77 | 68.1 | 86.1 | 126.1# |



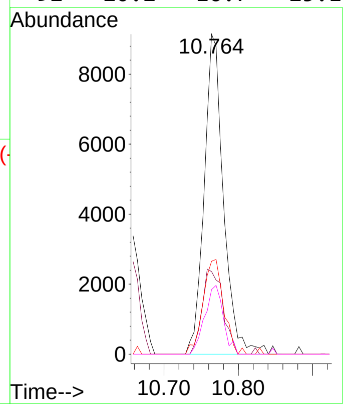
ICAL Form




#33
4-Chloroaniline
Concen: 10.065 ng
RT: 10.764 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:127 Resp: 1658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 25.8 | 24.2 | 36.4 |
| 65 | 29.0 | 29.6 | 44.4# |
| 92 | 20.2 | 16.7 | 25.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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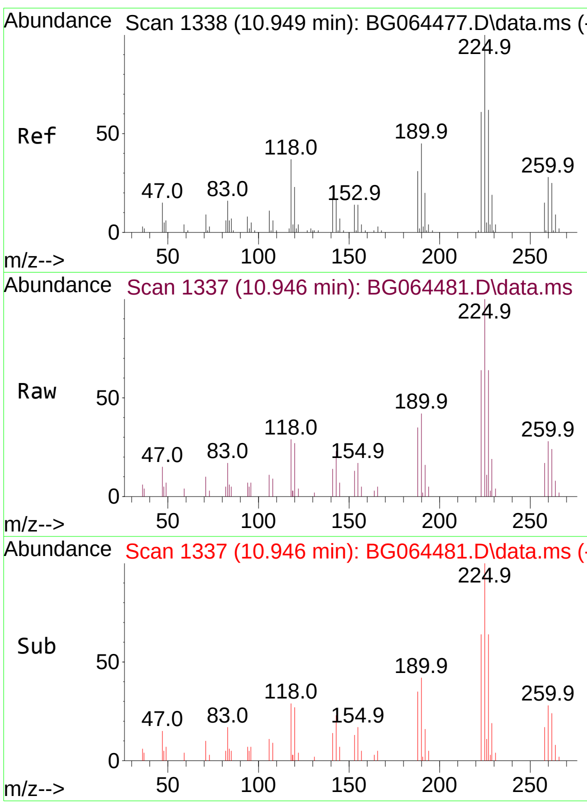
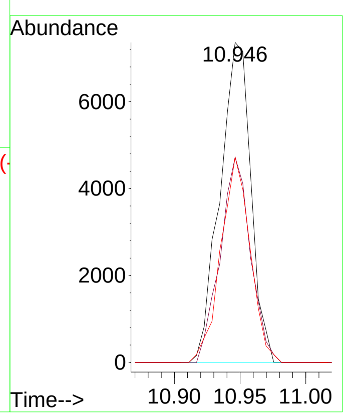
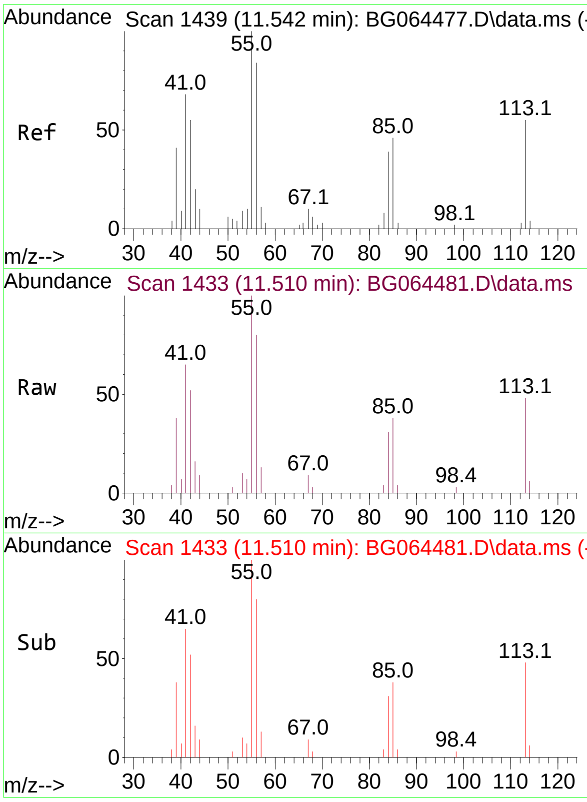



#34
Hexachlorobutadiene
Concen: 9.503 ng
RT: 10.946 min Scan# 1337
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:225 Resp: 12067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.1 | 49.0 | 73.6 |
| 227 | 64.1 | 49.9 | 74.9 |






#35
Caprolactam
Concen: 9.648 ng
RT: 11.510 min Scan# 14
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

Tgt Ion:113 Resp: 449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 209.0 | 162.0 | 202.0# |
| 56 | 167.6 | 134.6 | 174.6 |

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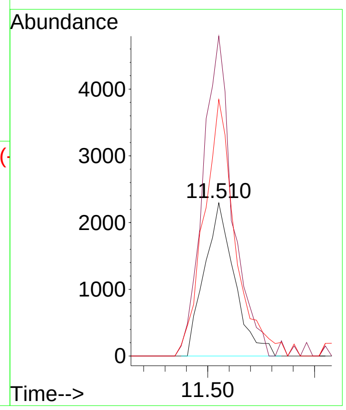
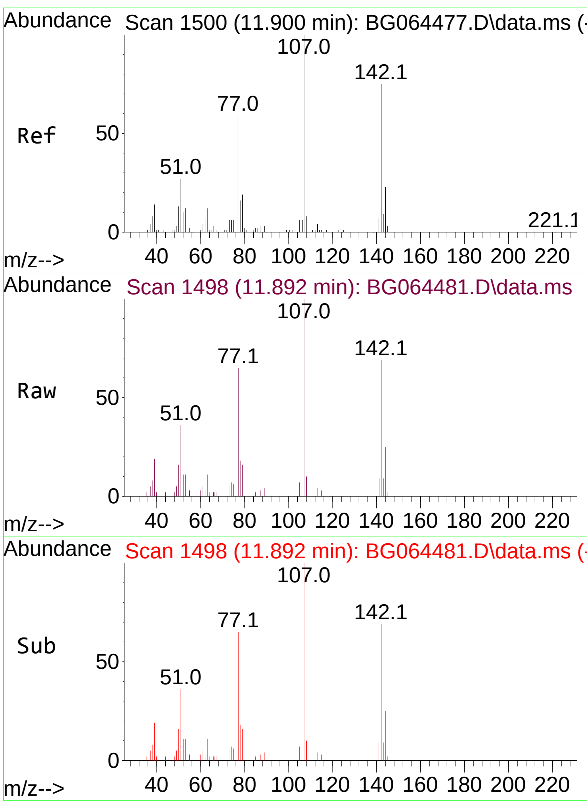
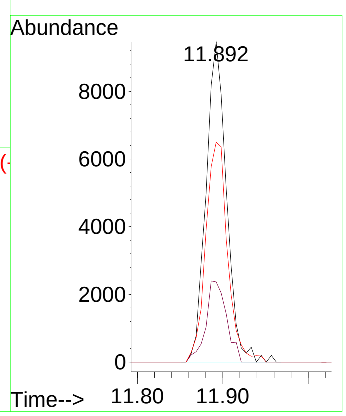


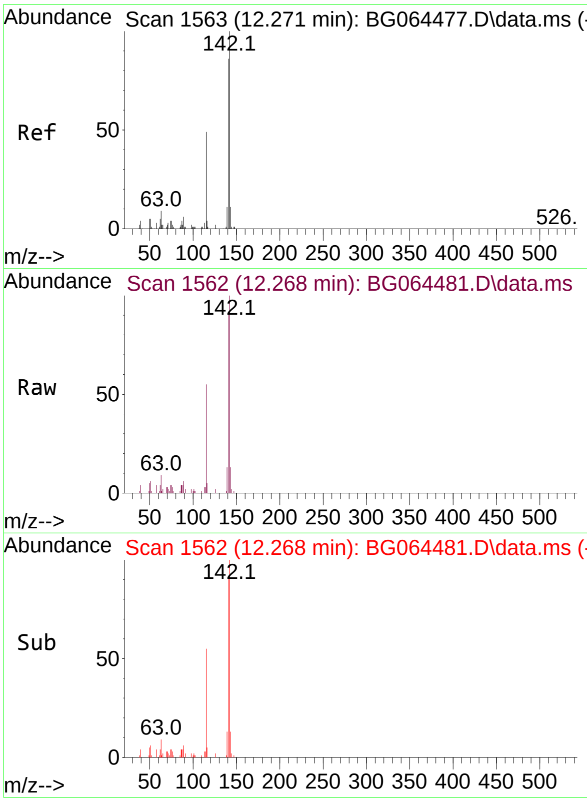




#36
4-Chloro-3-methylphenol
Concen: 9.597 ng
RT: 11.892 min Scan# 1498
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:107 Resp: 15870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 25.1 | 18.7 | 28.1 |
| 142 | 68.7 | 60.2 | 90.2 |






#37
2-Methylnaphthalene
Concen: 9.749 ng
RT: 12.268 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

Tgt Ion:142 Resp: 3214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.7 | 68.7 | 103.1 |
| 115 | 55.0 | 39.3 | 58.9 |

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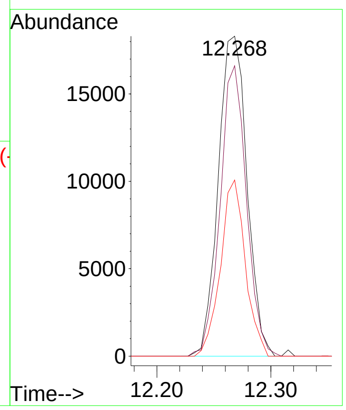


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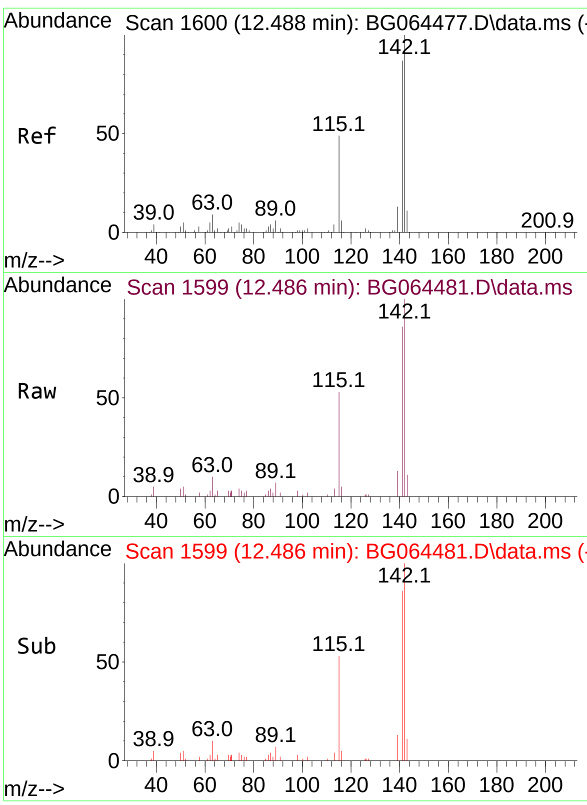
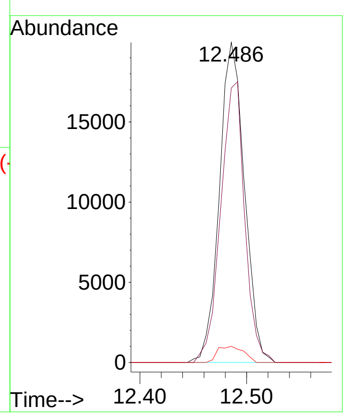
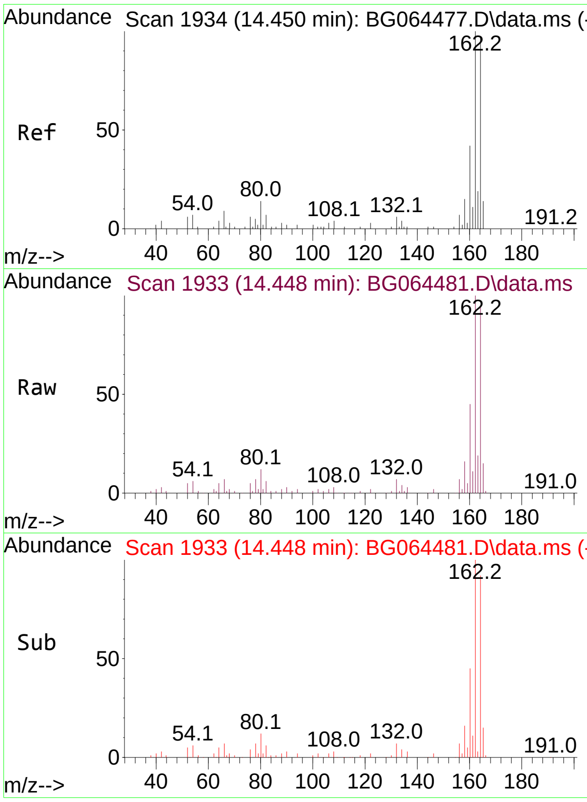



#38
1-Methylnaphthalene
Concen: 9.921 ng
RT: 12.486 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:142 Resp: 32614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.7 | 69.8 | 104.8 |
| 116 | 5.1 | 4.6 | 6.8 |





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.448 min Scan# 19
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

Tgt Ion:164 Resp: 63487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.7 | 82.2 | 123.2 |
| 160 | 48.0 | 34.3 | 51.5 |

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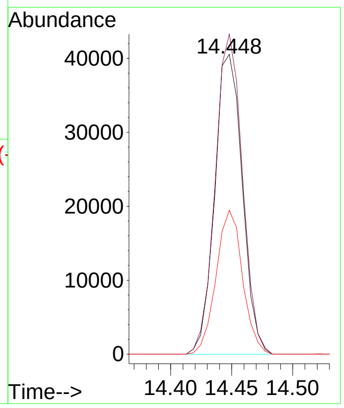
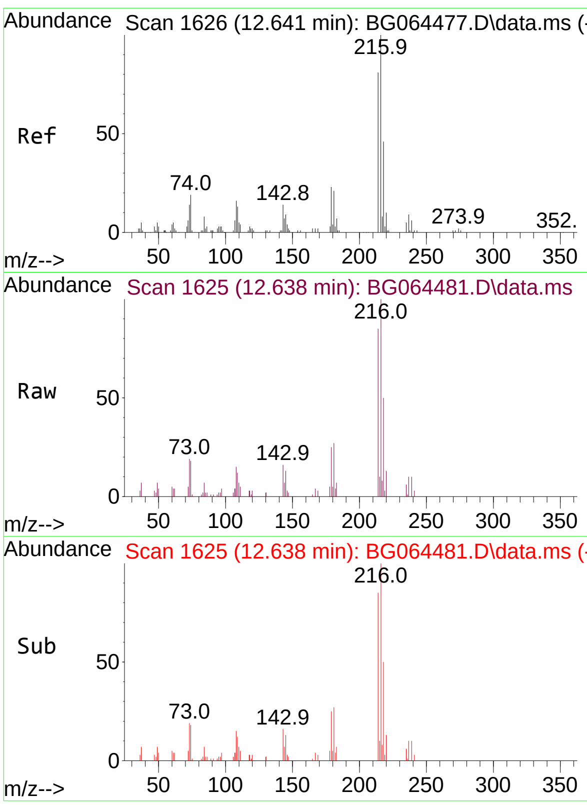
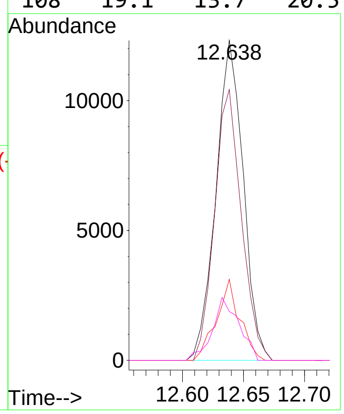


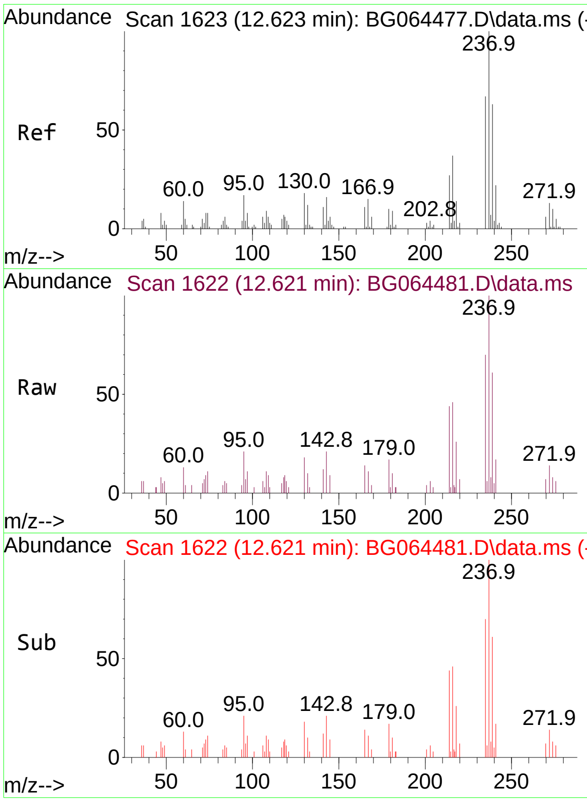


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.354 ng
RT: 12.638 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:216 Resp: 19175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 82.9 | 62.5 | 93.7 |
| 179 | 21.7 | 17.0 | 25.6 |
| 108 | 19.1 | 13.7 | 20.5 |






#41
Hexachlorocyclopentadiene
Concen: 8.249 ng
RT: 12.621 min Scan# 16
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:237 Resp: 884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 70.4 | 46.9 | 86.9 |
| 272 | 14.1 | 0.0 | 32.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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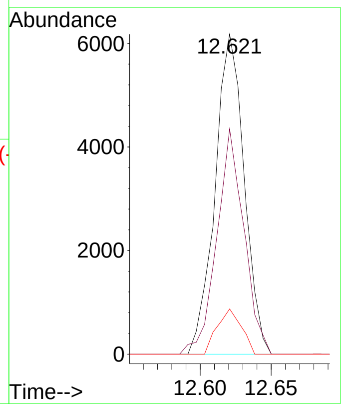


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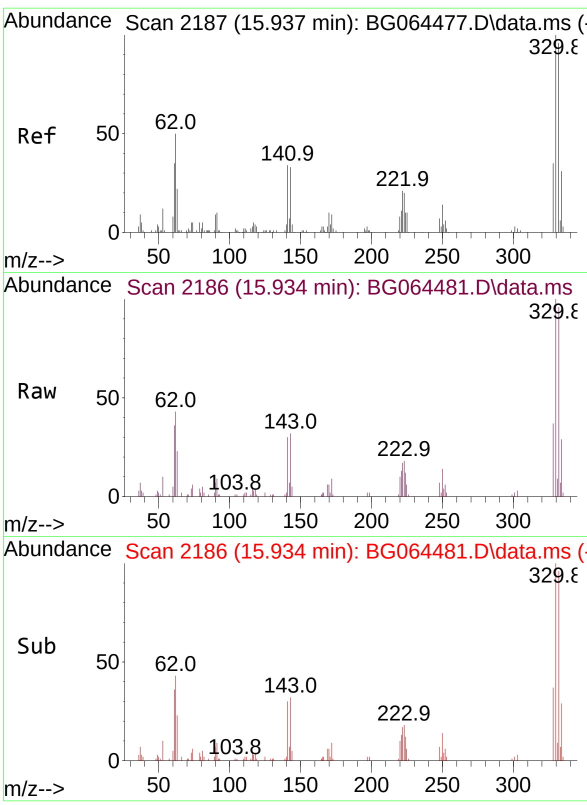
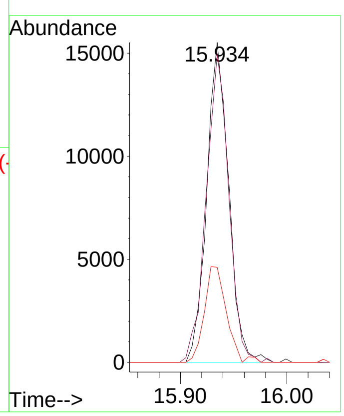



#42
2,4,6-Tribromophenol
Concen: 19.423 ng
RT: 15.934 min Scan# 2186
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:330 Resp: 22352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.9 | 77.4 | 116.0 |
| 141 | 30.0 | 25.8 | 38.6 |



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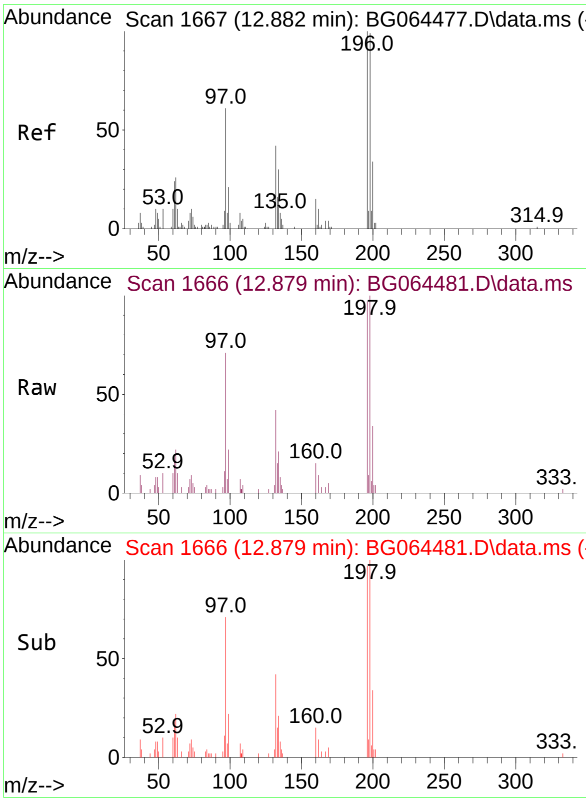
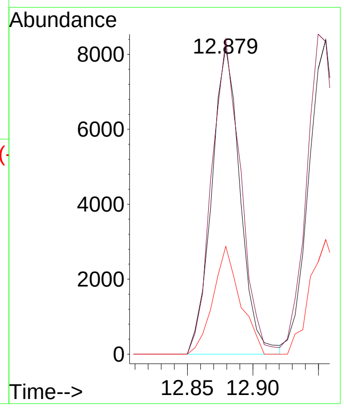



#43
2,4,6-Trichlorophenol
Concen: 9.457 ng
RT: 12.879 min Scan# 16
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:196 Resp: 1239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.6 | 79.3 | 118.9 |
| 200 | 39.2 | 27.4 | 41.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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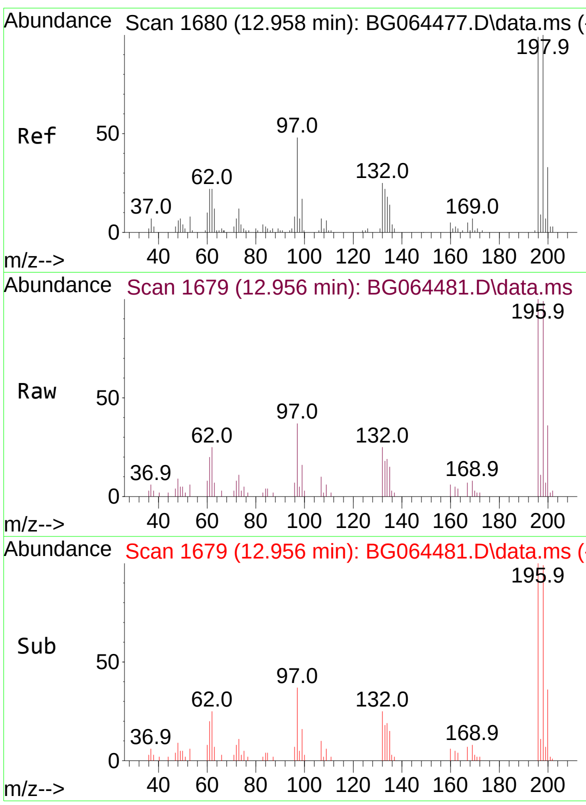
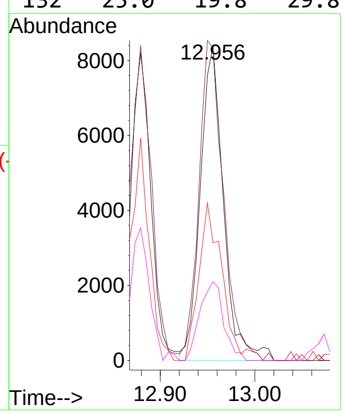


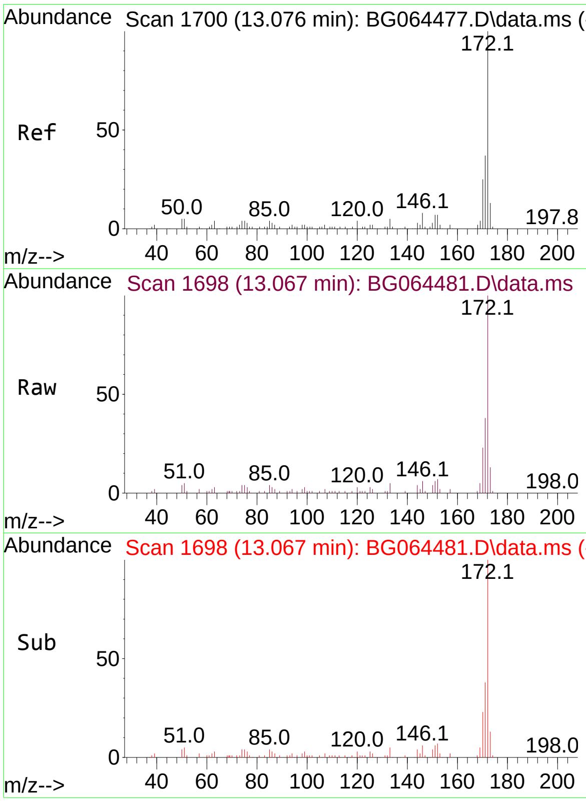

#44
2,4,5-Trichlorophenol
Concen: 9.806 ng
RT: 12.956 min Scan# 1679
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:196 Resp: 14346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.3 | 80.3 | 120.5 |
| 97 | 37.4 | 39.4 | 59.0# |
| 132 | 25.0 | 19.8 | 29.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010




#45
2-Fluorobiphenyl
Concen: 19.718 ng
RT: 13.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:172 Resp: 8492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.9 | 29.6 | 44.4 |
| 170 | 22.9 | 20.2 | 30.2 |

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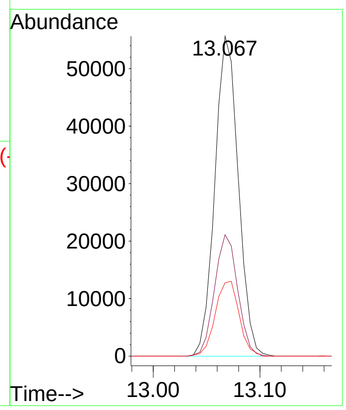


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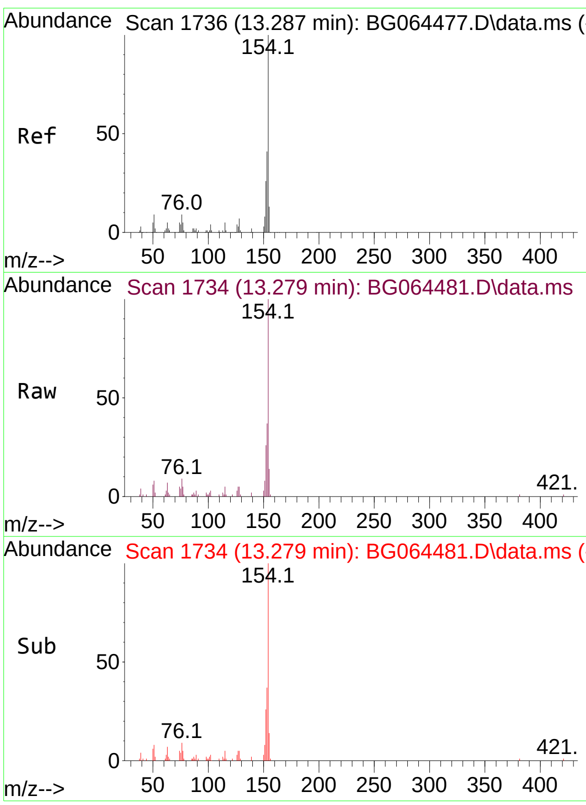
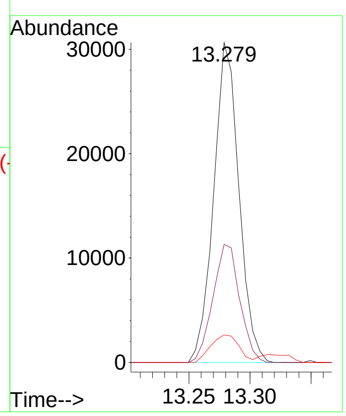



#46
1,1'-Biphenyl
Concen: 9.648 ng
RT: 13.279 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:154 Resp: 44053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 36.9 | 20.7 | 60.7 |
| 76 | 8.6 | 0.0 | 29.3 |



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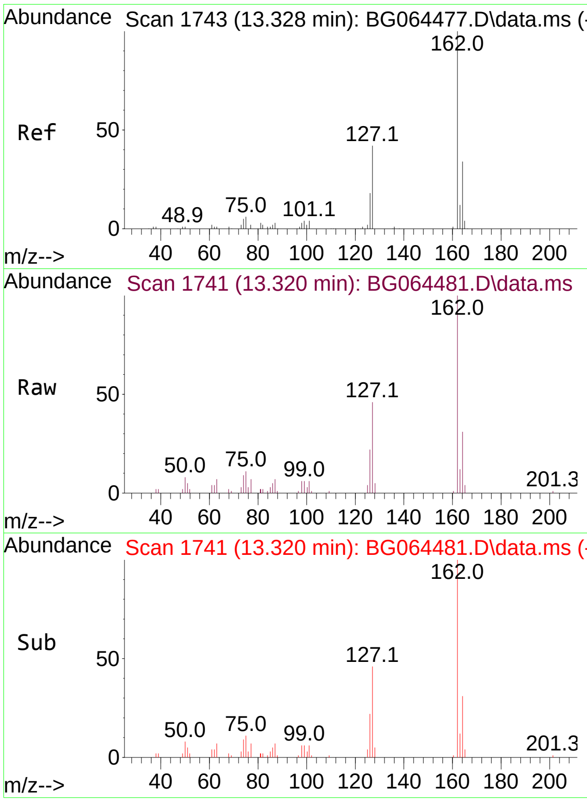


#47
2-Chloronaphthalene
Concen: 10.281 ng
RT: 13.320 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

Tgt Ion:162 Resp: 3505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 46.2 | 35.8 | 53.8 |
| 164 | 31.3 | 27.2 | 40.8 |

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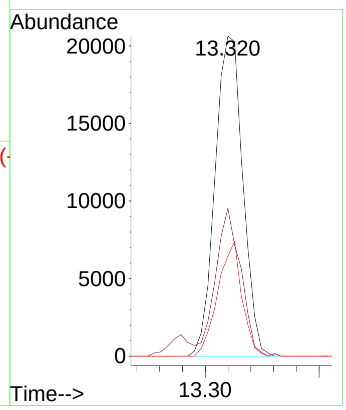


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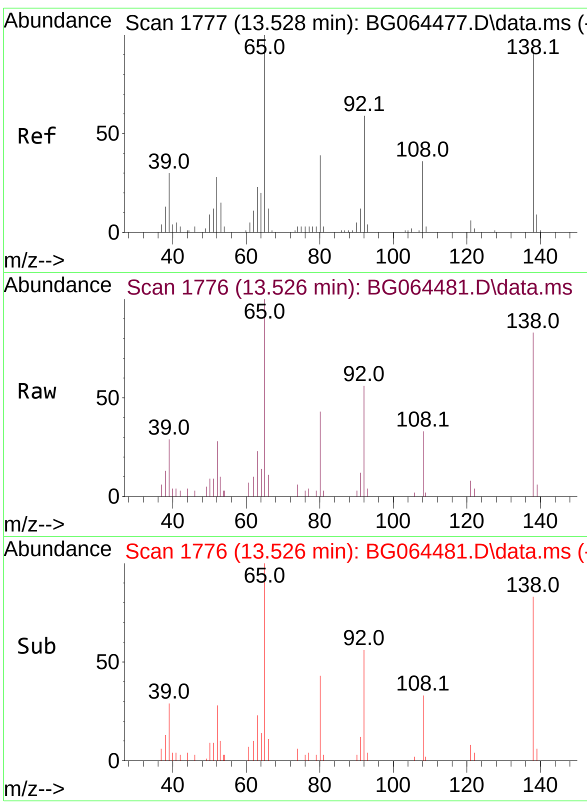
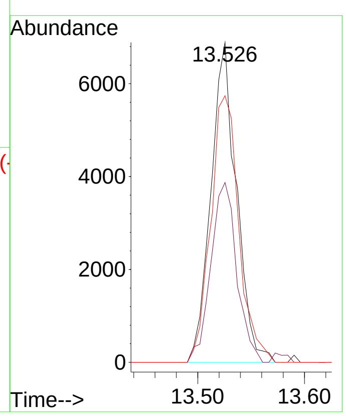



#48
2-Nitroaniline
Concen: 9.868 ng
RT: 13.526 min Scan# 1776
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 65 Resp: 11482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 56.2 | 47.0 | 70.6 |
| 138 | 83.3 | 73.5 | 110.3 |



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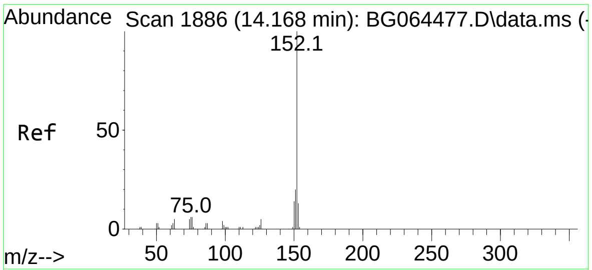


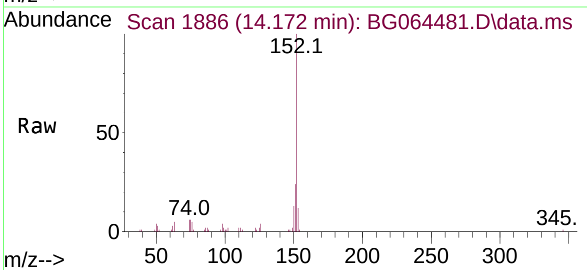


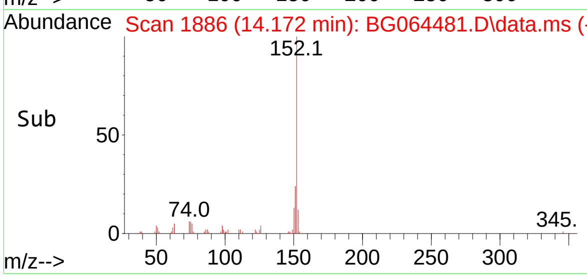


```
#49
Acenaphthylene
Concen:    9.624 ng
RT:  14.172 min  Scan# 18
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:152 Resp:   4870
Ion  Ratio  Lower  Upper
152  100
151   23.8   15.8   23.6
153   11.8   10.6   15.8
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Supervised By :Jagrut Upadhyay

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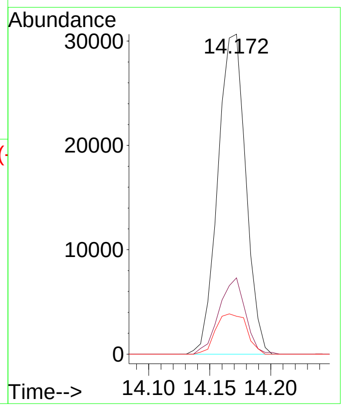
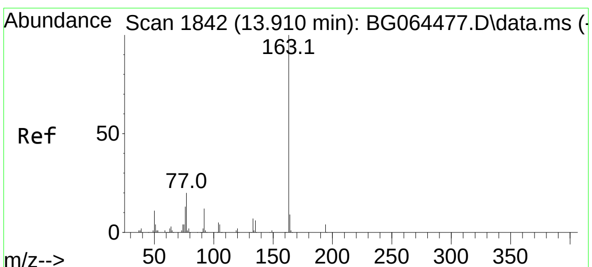
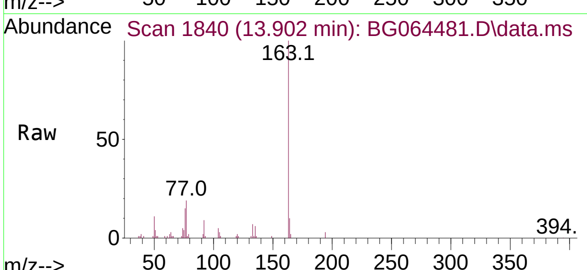
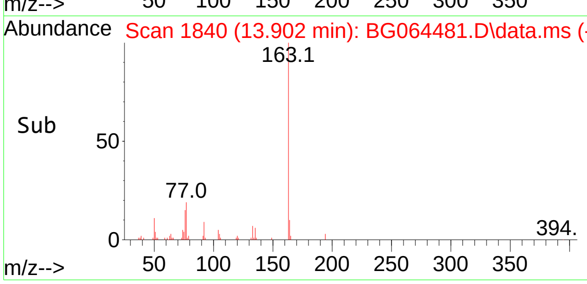


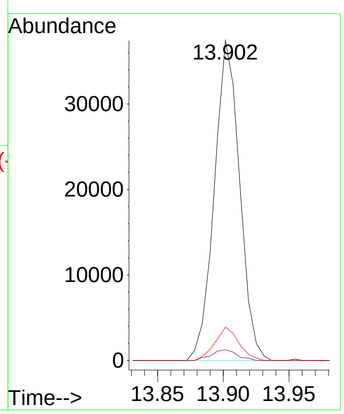




```
#50
Dimethylphthalate
Concen:   10.110 ng
RT:  13.902 min  Scan# 1840
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:163 Resp:   50268
Ion  Ratio  Lower  Upper
163  100
194    3.3    2.9    4.3
164   10.4    7.4   11.0
```



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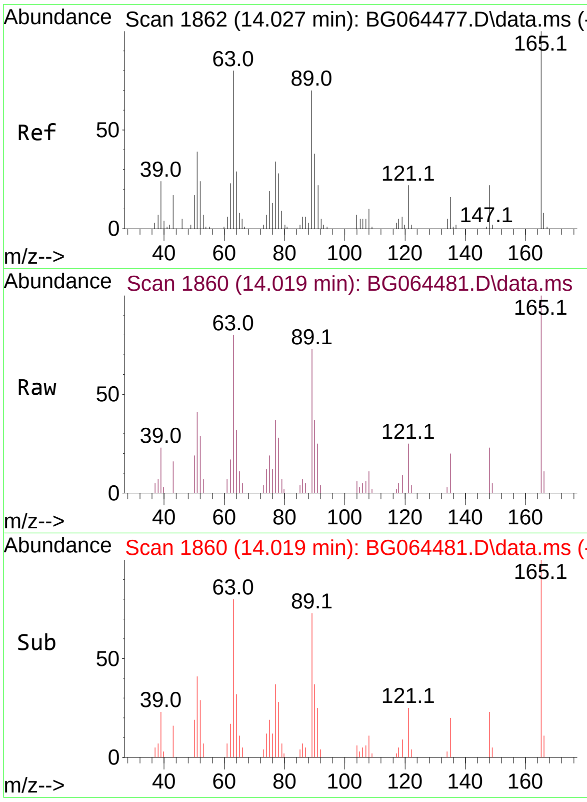
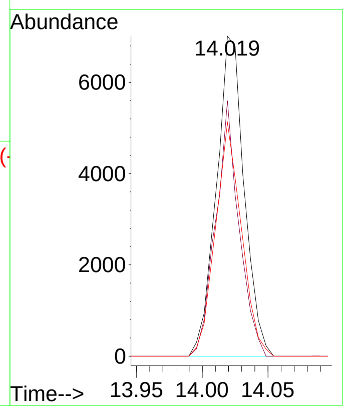



#51
2,6-Dinitrotoluene
Concen: 9.980 ng
RT: 14.019 min Scan# 18
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:165 Resp: 1033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 79.8 | 63.9 | 95.9 |
| 89 | 73.0 | 56.1 | 84.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Reviewed By :Rahul Chavli
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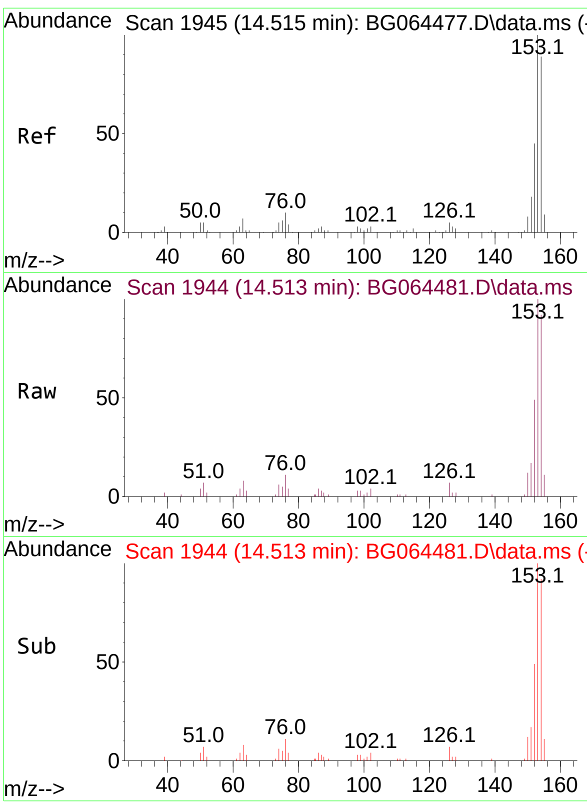
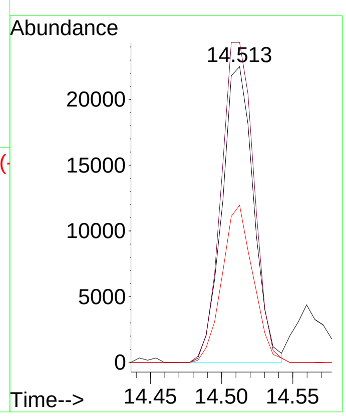
Supervised By :Jagrut Upadhyay
10/03/2025




#52
Acenaphthene
Concen: 9.922 ng
RT: 14.513 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:154 Resp: 34887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 108.2 | 90.2 | 135.4 |
| 152 | 53.2 | 40.2 | 60.4 |



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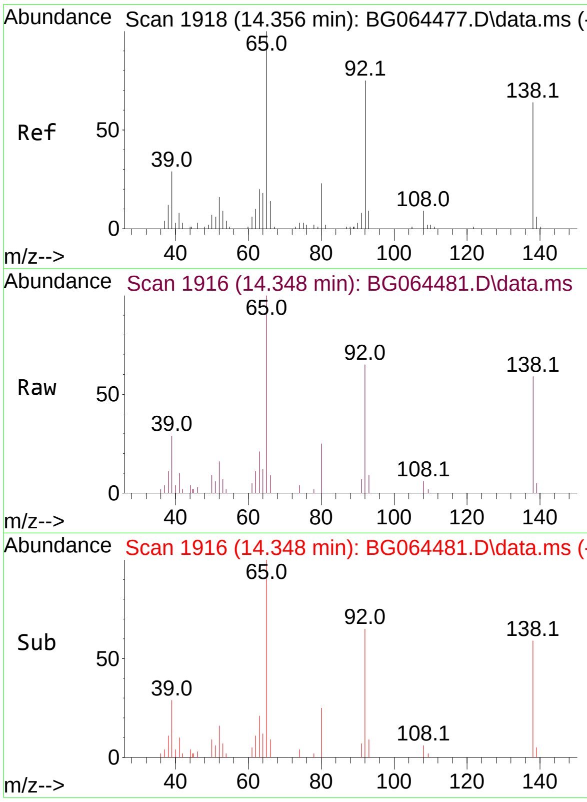
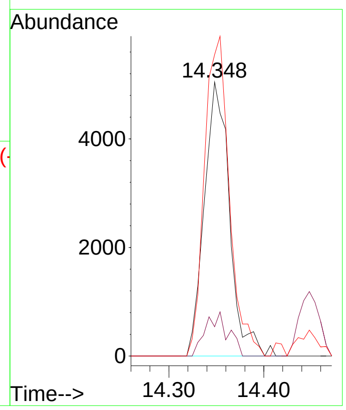


#53
3-Nitroaniline
Concen: 9.780 ng
RT: 14.348 min Scan# 19
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:138 Resp: 934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 10.7 | 10.6 | 15.8 |
| 92 | 110.1 | 93.2 | 139.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Supervised By :Jagrut Upadhyay

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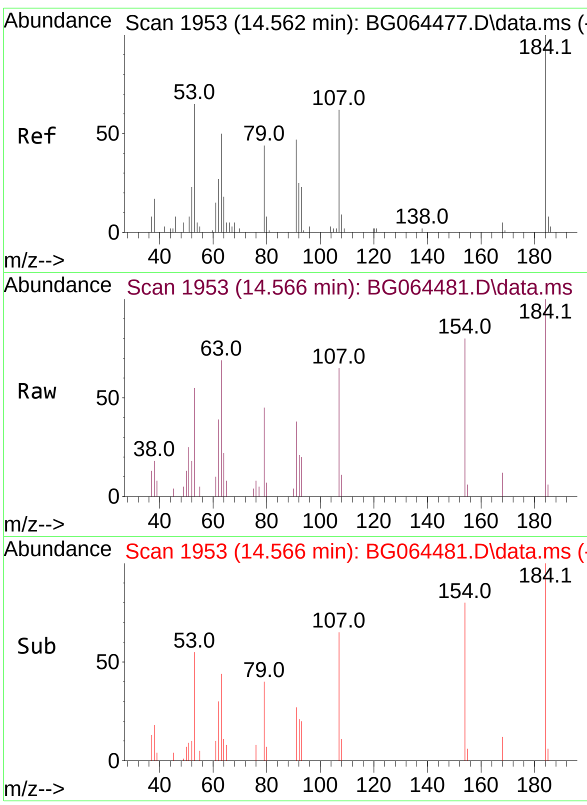
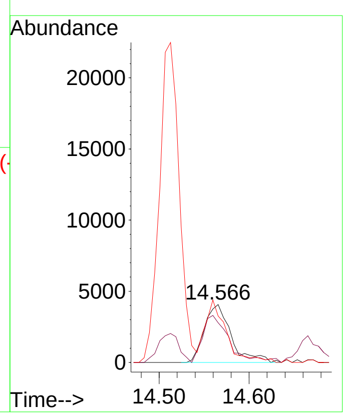


#54
2,4-Dinitrophenol
Concen: 11.216 ng
RT: 14.566 min Scan# 1953
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:184 Resp: 8424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 68.6 | 69.0 | 103.4# |
| 154 | 80.0 | 95.6 | 143.4# |



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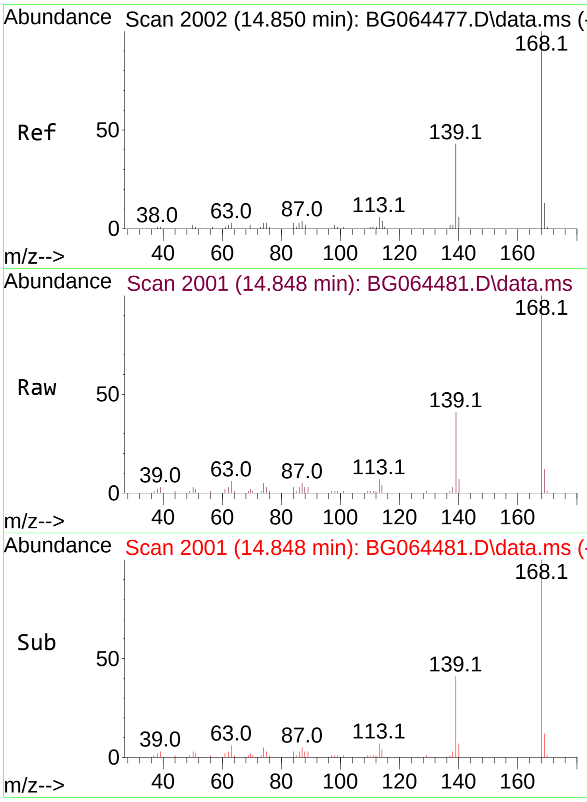
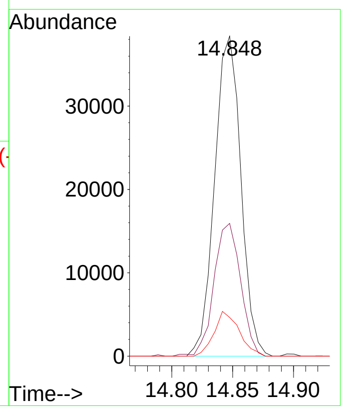



```
#55
Dibenzofuran
Concen:    9.897 ng
RT:  14.848 min  Scan# 20
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:168 Resp:   5745
Ion  Ratio  Lower  Upper
168  100
139   41.5   34.0   51.0
169   12.1   10.2   15.2
```




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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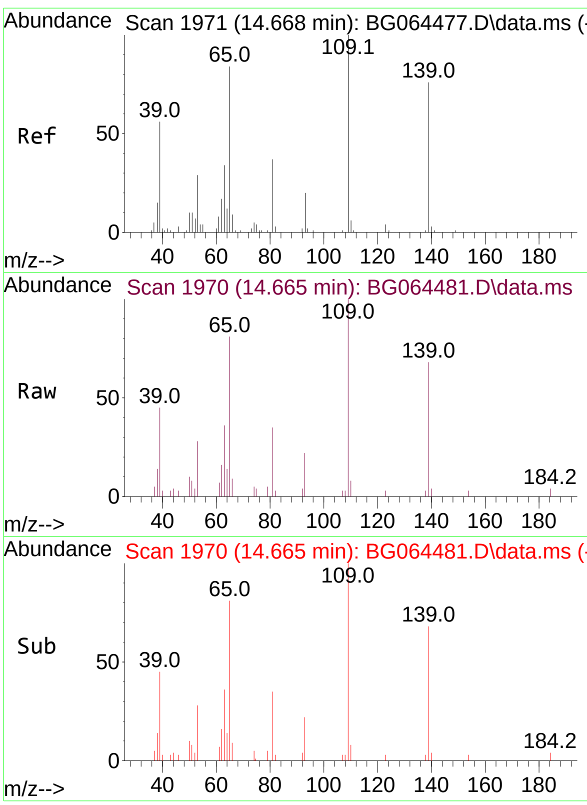
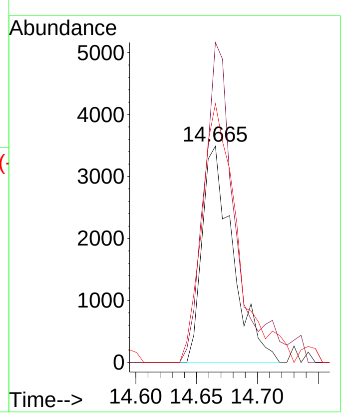



```
#56
4-Nitrophenol
Concen:    8.116 ng
RT:  14.665 min  Scan# 1970
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:139 Resp:    6104
Ion  Ratio  Lower  Upper
139  100
109  148.0  111.8  151.8
 65  119.6   91.1  131.1
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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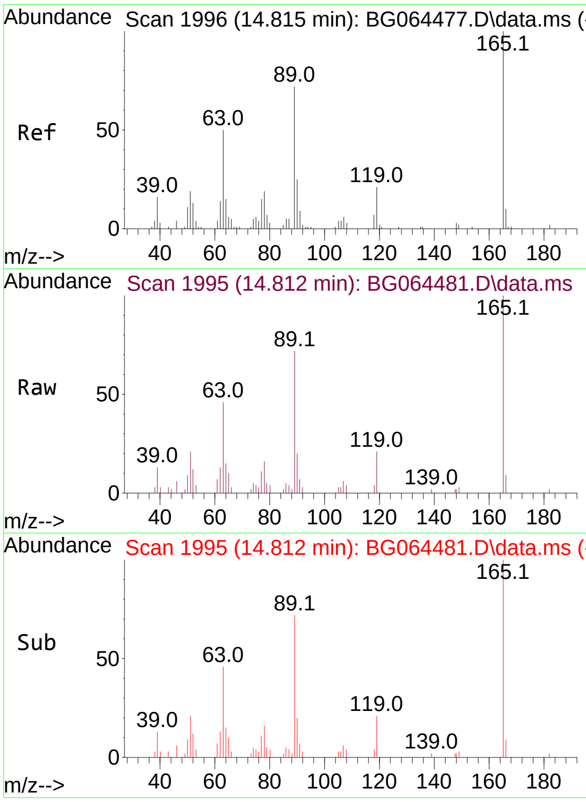
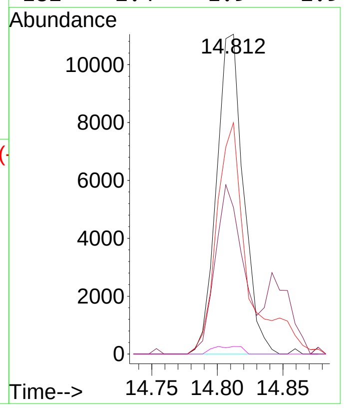
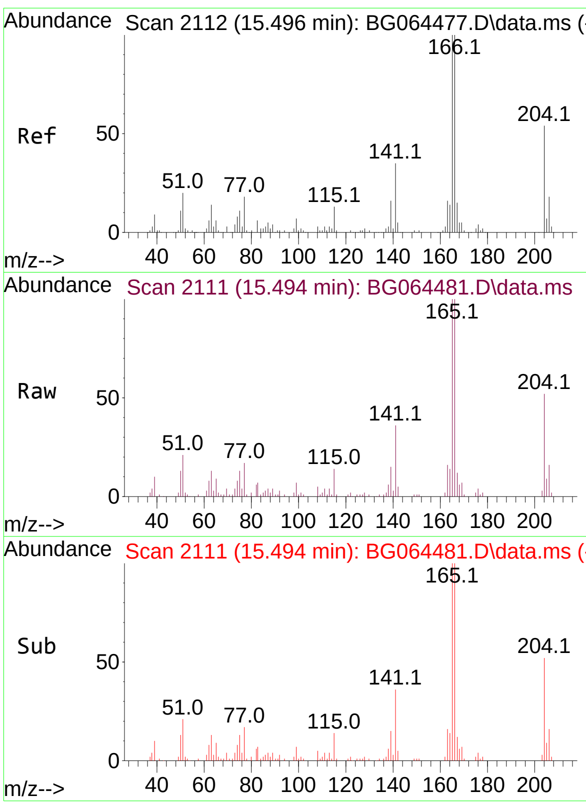



#57
2,4-Dinitrotoluene
Concen: 10.006 ng
RT: 14.812 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:165 Resp: 1584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 45.8 | 40.4 | 60.6 |
| 89 | 72.3 | 57.3 | 85.9 |
| 182 | 2.4 | 1.9 | 2.9 |

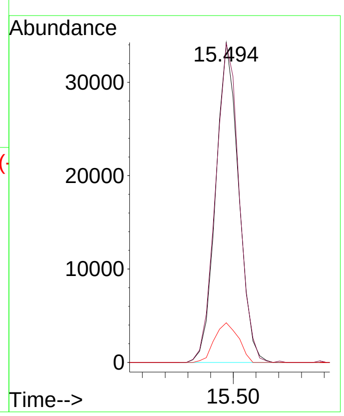



#58
Fluorene
Concen: 9.937 ng
RT: 15.494 min Scan# 2111
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:166 Resp: 47958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.7 | 79.8 | 119.6 |
| 167 | 12.4 | 11.7 | 17.5 |



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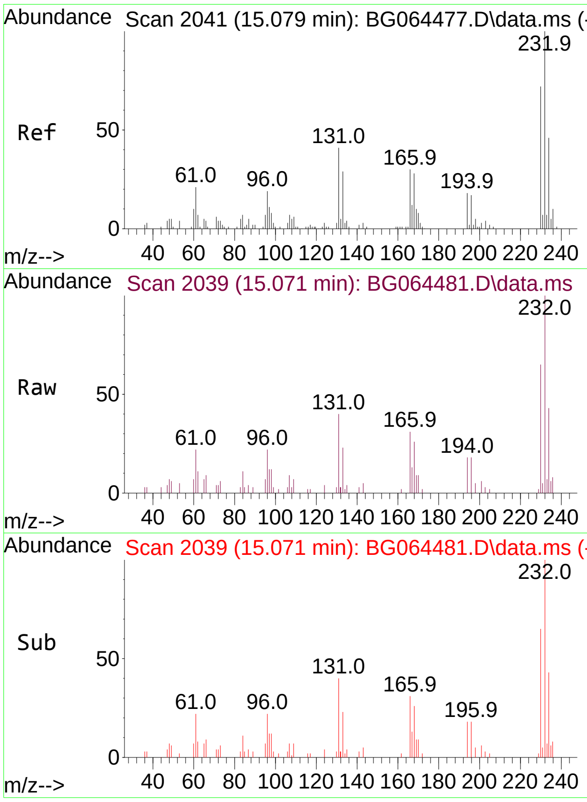


#59
2,3,4,6-Tetrachlorophenol
Concen: 9.514 ng
RT: 15.071 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:232 Resp: 1420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 46.2 | 35.0 | 52.4 |
| 130 | 2.2 | 2.0 | 3.0 |
| 166 | 30.2 | 23.8 | 35.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Supervised By :Jagrut Upadhyay

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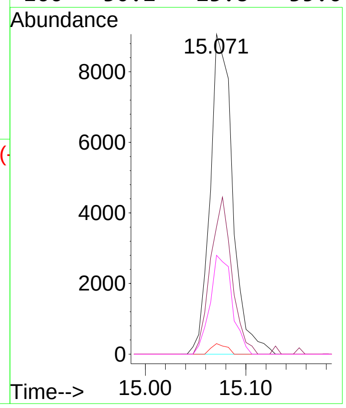
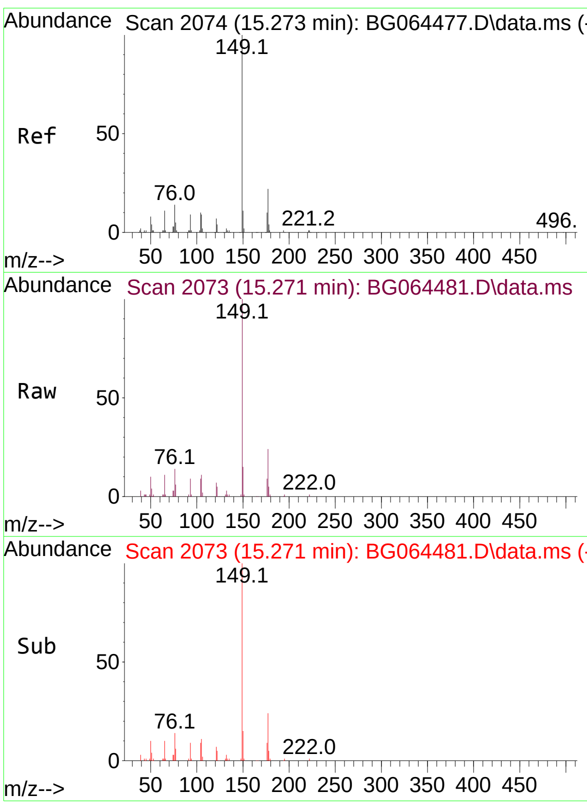
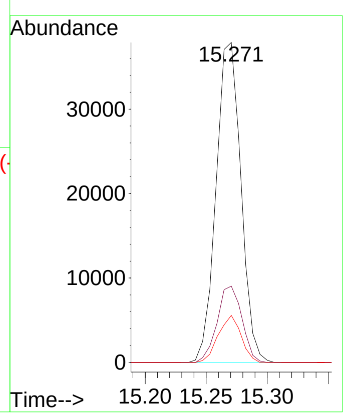



#60
Diethylphthalate
Concen: 10.066 ng
RT: 15.271 min Scan# 2073
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:149 Resp: 53695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.8 | 17.4 | 26.0 |
| 150 | 14.7 | 9.1 | 13.7# |



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**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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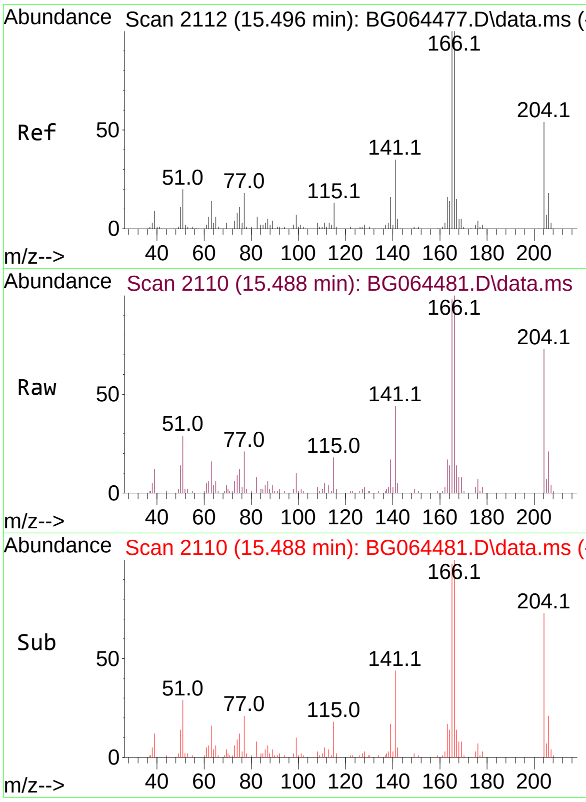
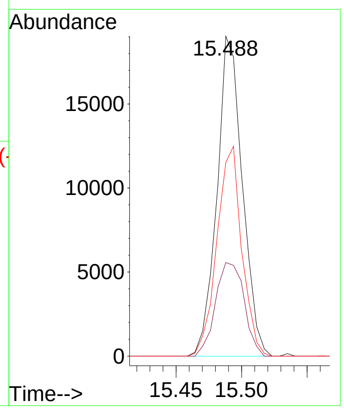
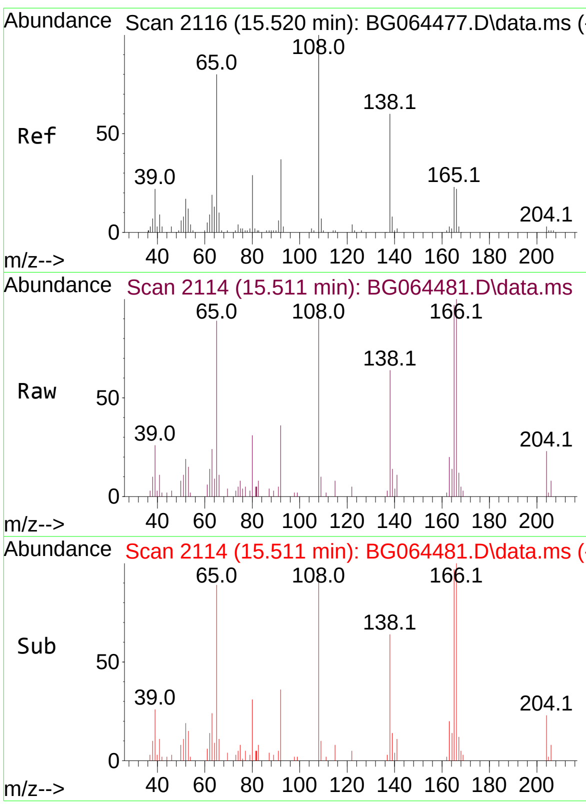



#61
4-Chlorophenyl-phenylether
Concen: 9.742 ng
RT: 15.488 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:204 Resp: 2566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 29.2 | 27.1 | 40.7 |
| 141 | 60.5 | 51.5 | 77.3 |

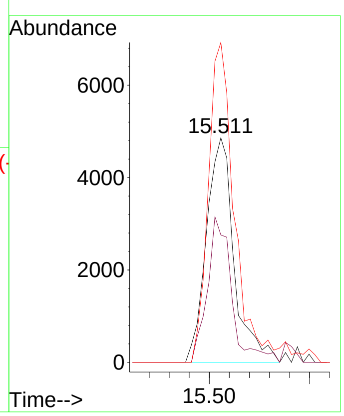



#62
4-Nitroaniline
Concen: 9.431 ng
RT: 15.511 min Scan# 2114
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:138 Resp: 9390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 56.8 | 42.3 | 82.3 |
| 108 | 142.5 | 147.7 | 187.7# |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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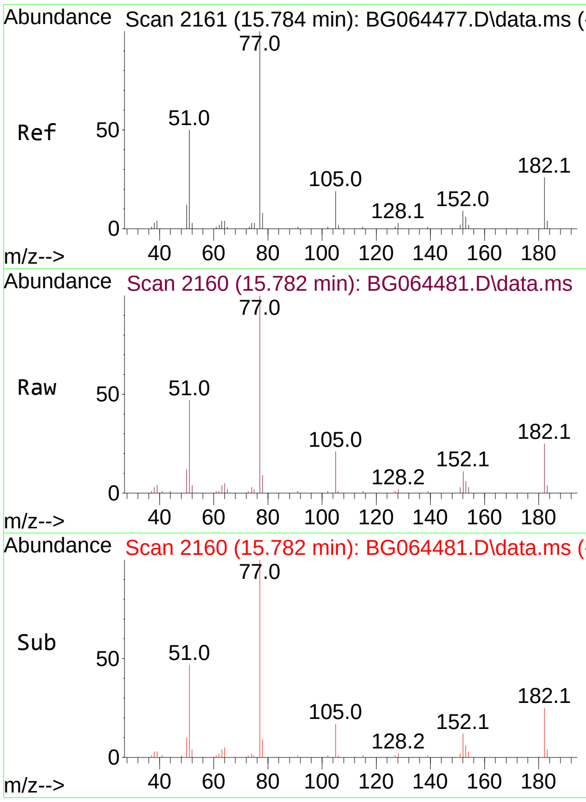
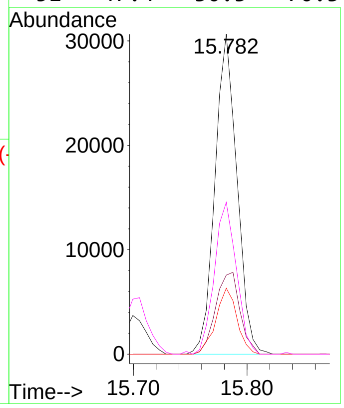
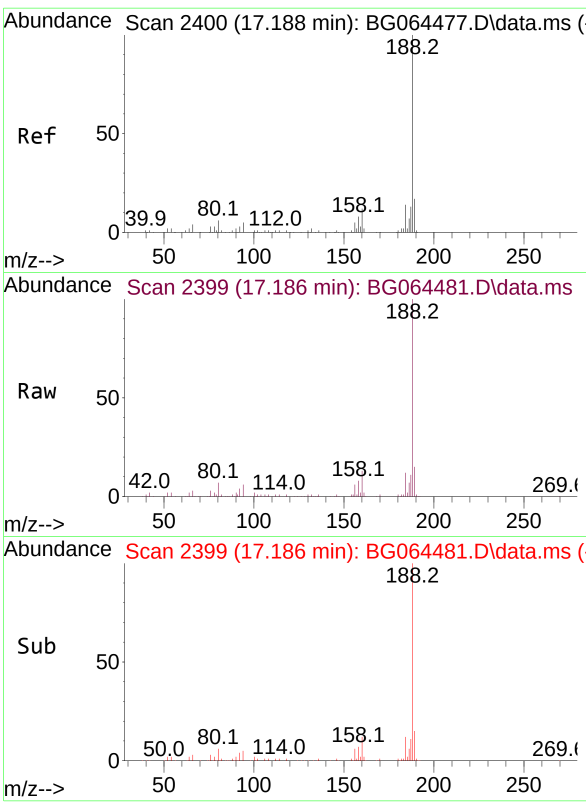



#63
Azobenzene
Concen: 9.982 ng
RT: 15.782 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion: 77 Resp: 41235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.7 | 6.3 | 46.3 |
| 105 | 20.6 | 0.0 | 38.7 |
| 51 | 47.4 | 30.3 | 70.3 |

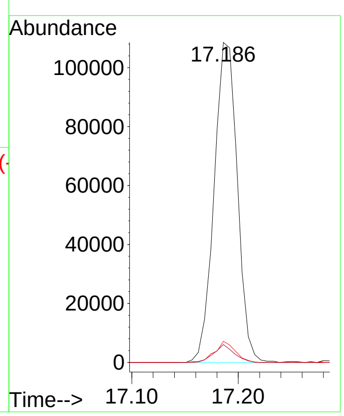



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.186 min Scan# 2399
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:188 Resp: 165339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 5.6 | 3.7 | 5.5# |
| 80 | 6.6 | 4.5 | 6.7 |



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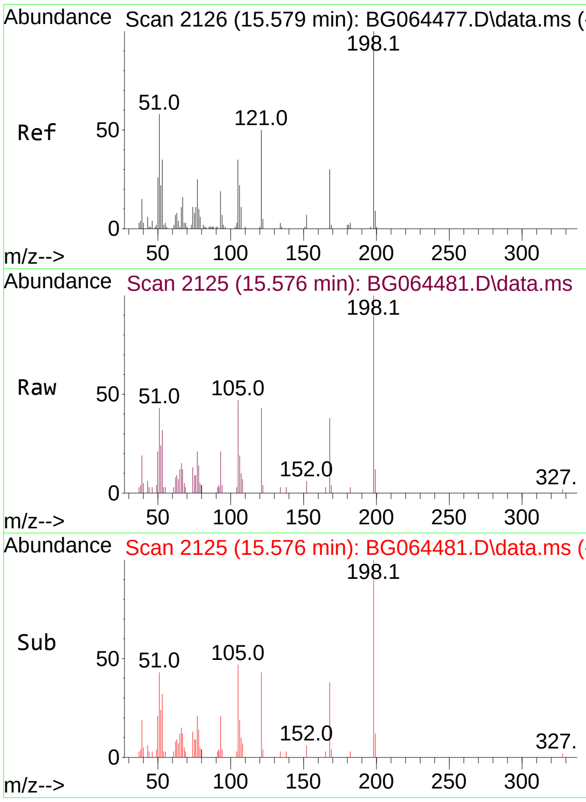


#65
4,6-Dinitro-2-methylphenol
Concen: 8.960 ng
RT: 15.576 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

Tgt Ion:198 Resp: 10315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 42.9 | 39.0 | 79.0 |
| 105 | 47.4 | 15.8 | 55.8 |

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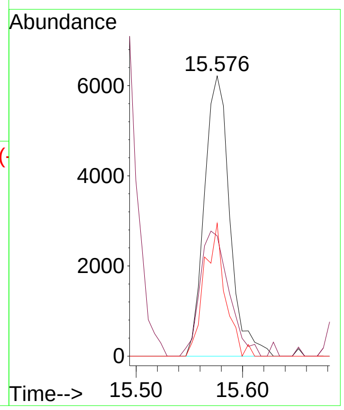


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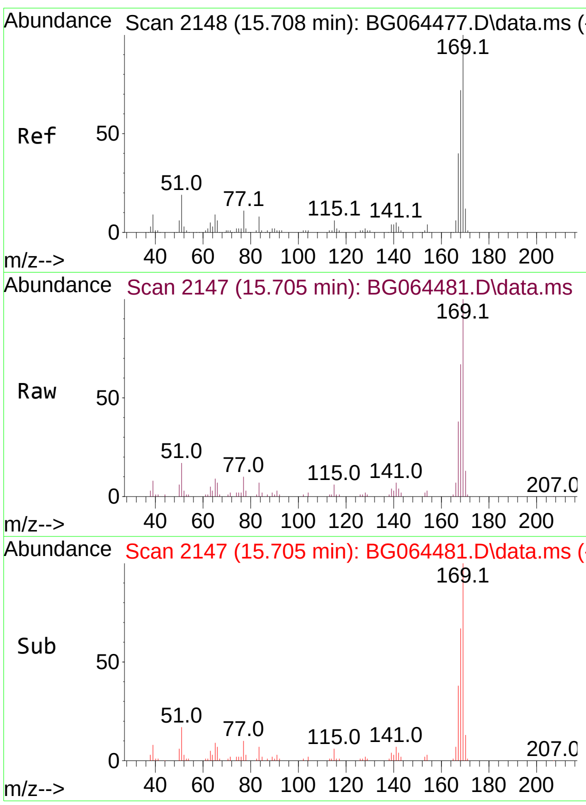
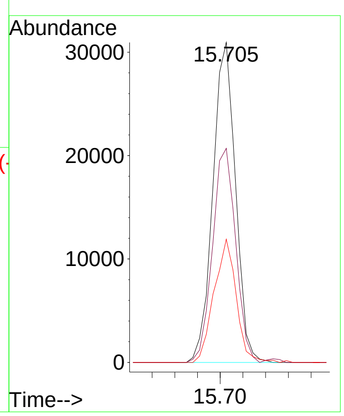
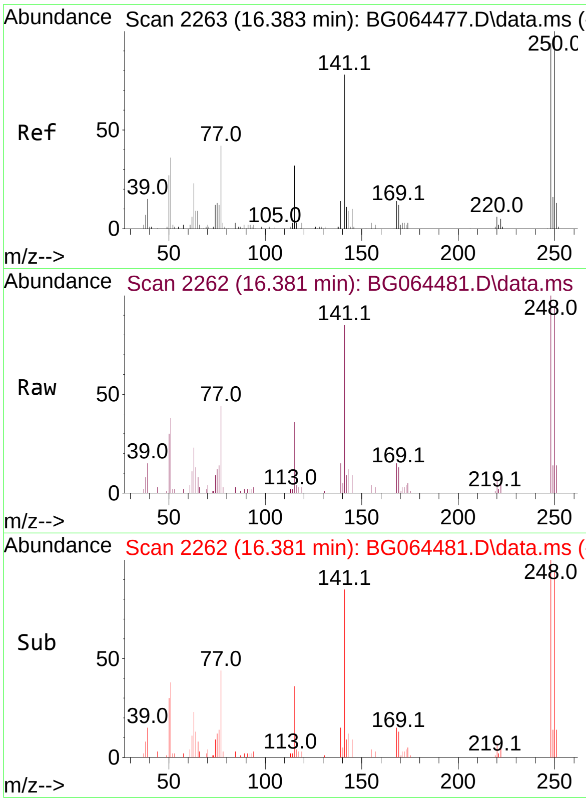



#66
n-Nitrosodiphenylamine
Concen: 9.712 ng
RT: 15.705 min Scan# 2147
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:169 Resp: 42881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.9 | 57.8 | 86.6 |
| 167 | 38.5 | 31.7 | 47.5 |

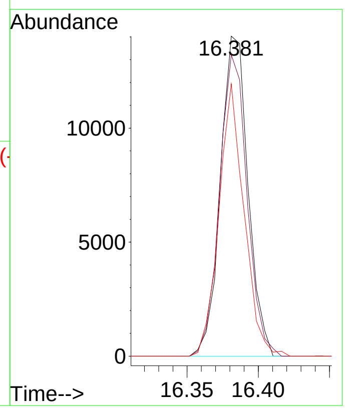





#67
4-Bromophenyl-phenylether
Concen: 9.731 ng
RT: 16.381 min Scan# 22
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:248 Resp: 18933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.2 | 85.3 | 127.9 |
| 141 | 85.1 | 66.2 | 99.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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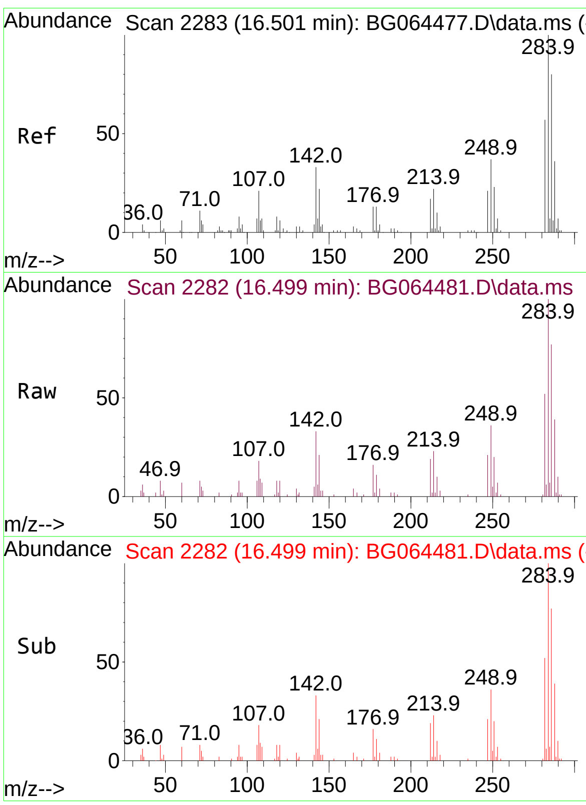
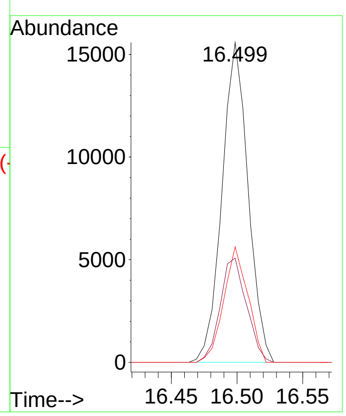



#68
Hexachlorobenzene
Concen: 9.676 ng
RT: 16.499 min Scan# 2282
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:284 Resp: 21542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 32.6 | 26.2 | 39.2 |
| 249 | 36.1 | 29.4 | 44.0 |



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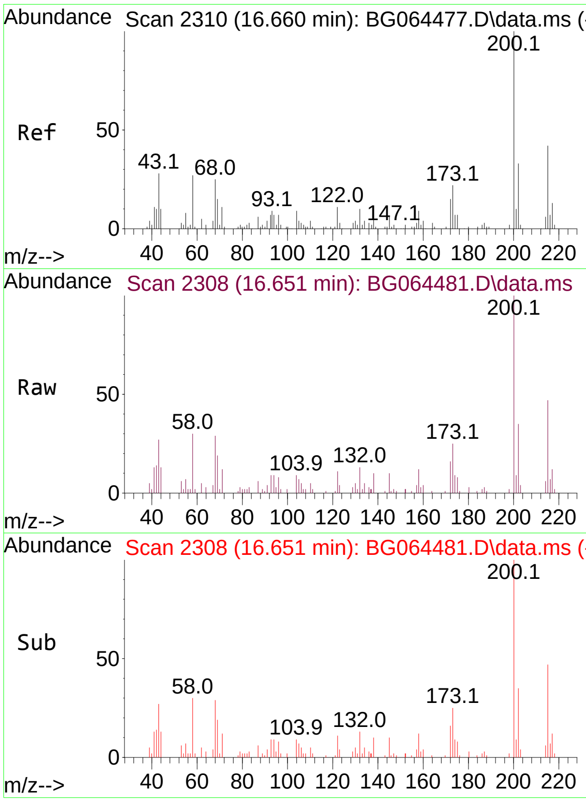


#69
Atrazine
Concen: 10.119 ng
RT: 16.651 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:200 Resp: 1987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.1 | 2.5 | 42.5 |
| 215 | 47.1 | 21.5 | 61.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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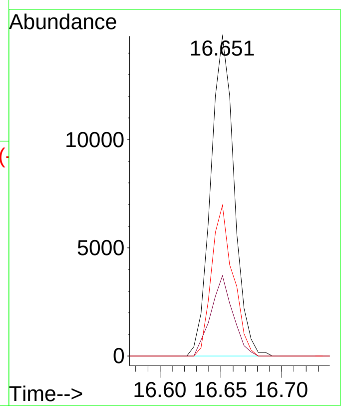


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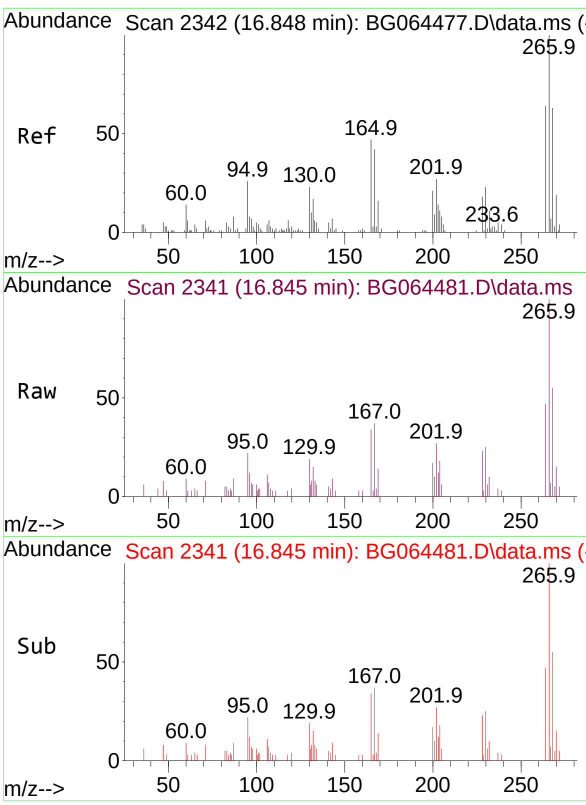
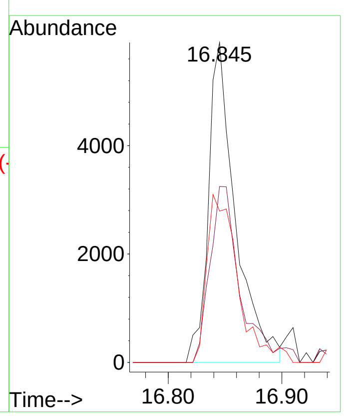



#70
Pentachlorophenol
Concen: 7.520 ng
RT: 16.845 min Scan# 2341
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:266 Resp: 9789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 55.0 | 50.6 | 75.8 |
| 264 | 47.3 | 51.2 | 76.8# |



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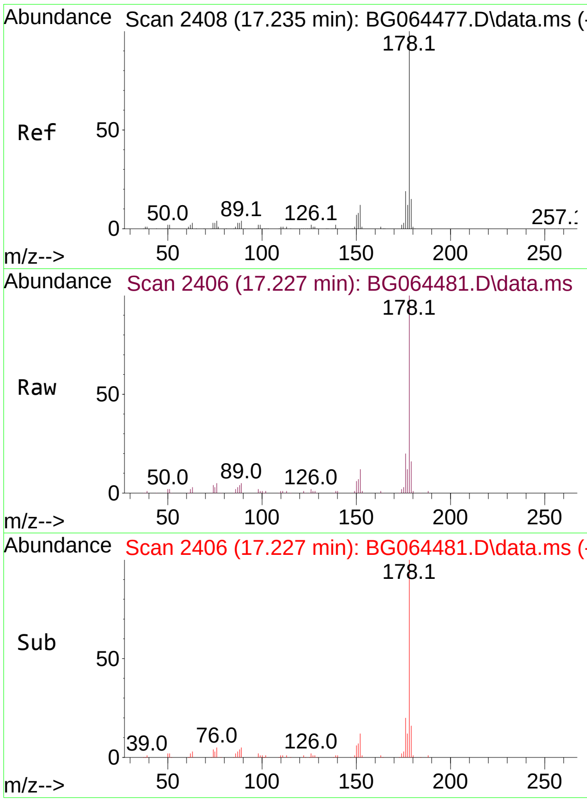
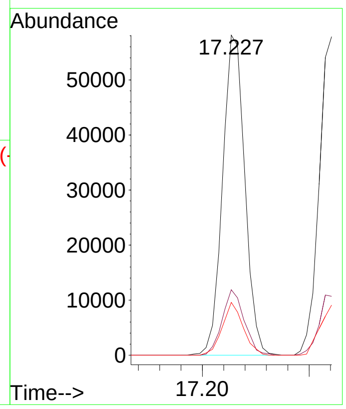



#71
Phenanthrene
Concen: 9.770 ng
RT: 17.227 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:178 Resp: 8447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 15.2 | 22.8 |
| 179 | 16.5 | 11.8 | 17.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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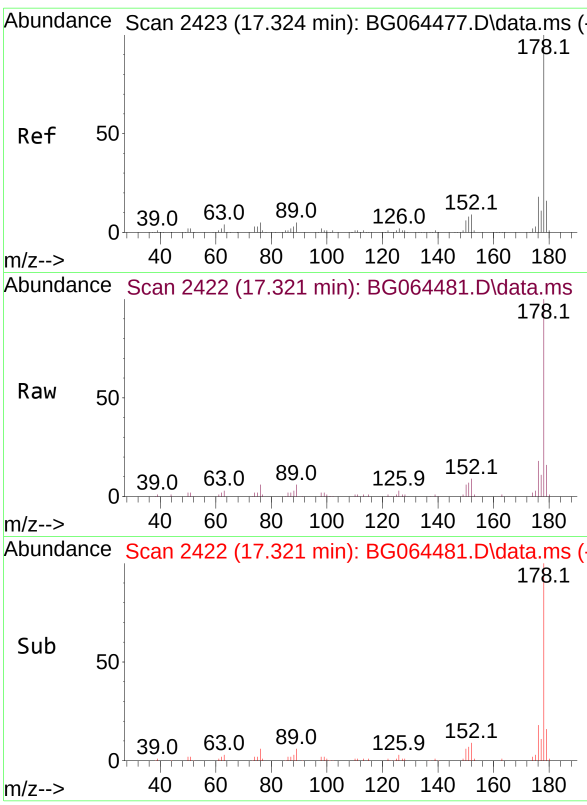
Supervised By :Jagrut Upadhyay

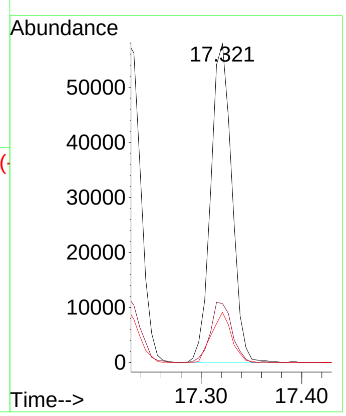
10/03/2025

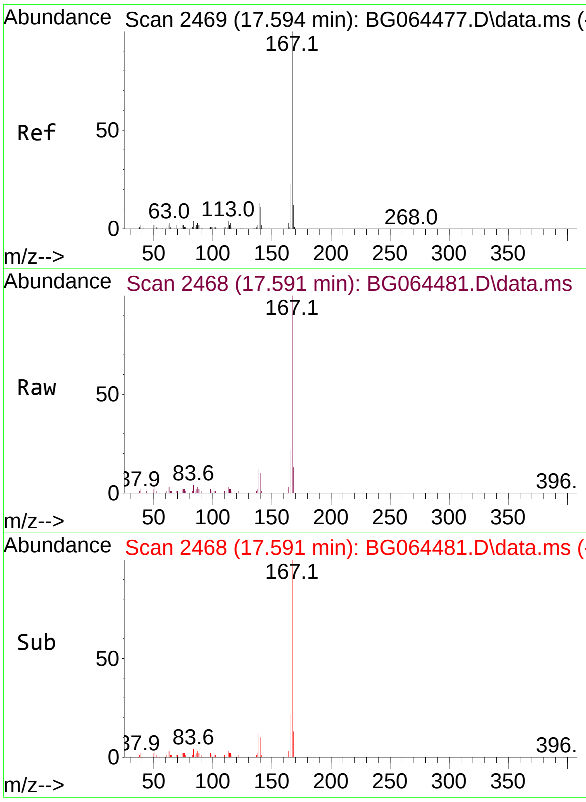



#72
Anthracene
Concen: 9.797 ng
RT: 17.321 min Scan# 2422
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:178 Resp: 84981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 21.8 |
| 179 | 15.7 | 12.5 | 18.7 |

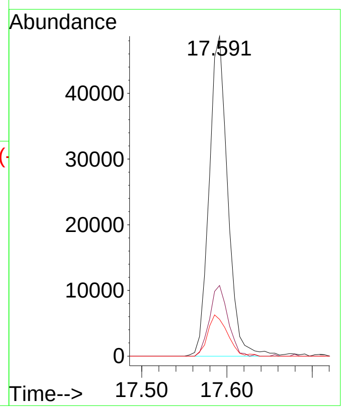





#73
Carbazole
Concen:    9.869 ng
RT:  17.591 min  Scan# 24
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:167 Resp:   73994

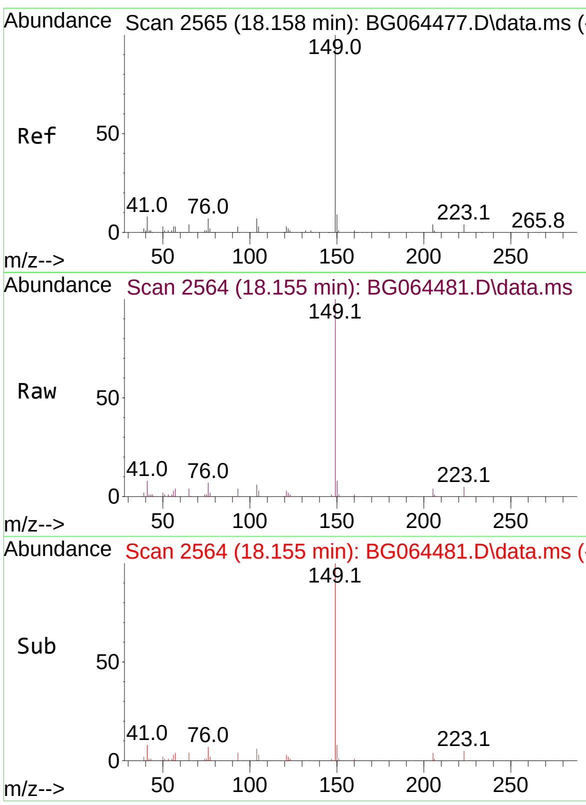
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.1 | 18.6 | 27.8 |
| 139 | 11.5 | 10.2 | 15.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

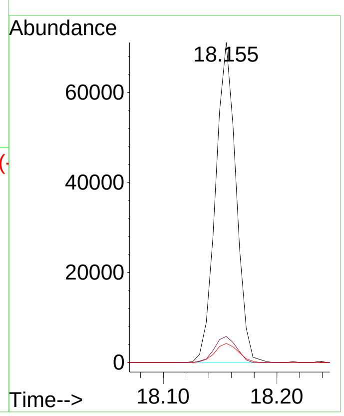
Reviewed By :Rahul Chavli
10/03/2025
Supervised By :Jagrut Upadhyay
10/03/2025



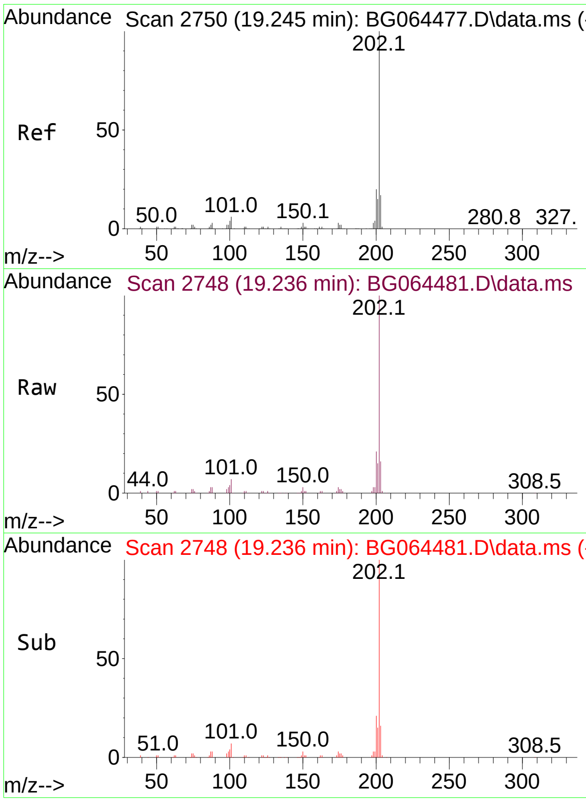

#74
Di-n-butylphthalate
Concen:    9.742 ng
RT:  18.155 min  Scan# 2564
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:149 Resp:   89166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.1 | 7.4 | 11.2 |
| 104 | 6.0 | 5.3 | 7.9 |



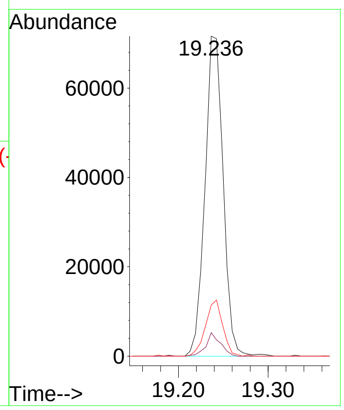
ICAL Form




#75
Fluoranthene
Concen: 9.813 ng
RT: 19.236 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:202 Resp: 10136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 7.4 | 0.0 | 25.7 |
| 203 | 16.0 | 0.0 | 36.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

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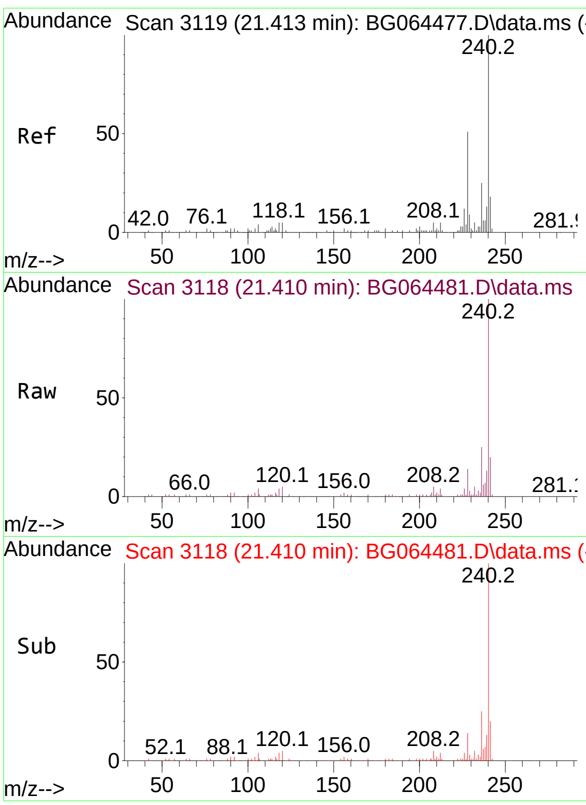
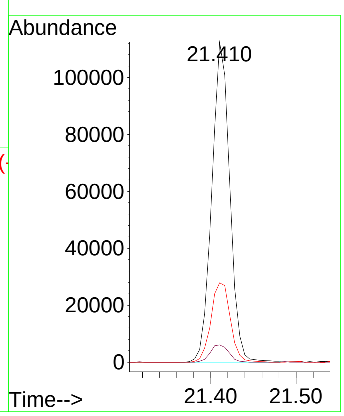
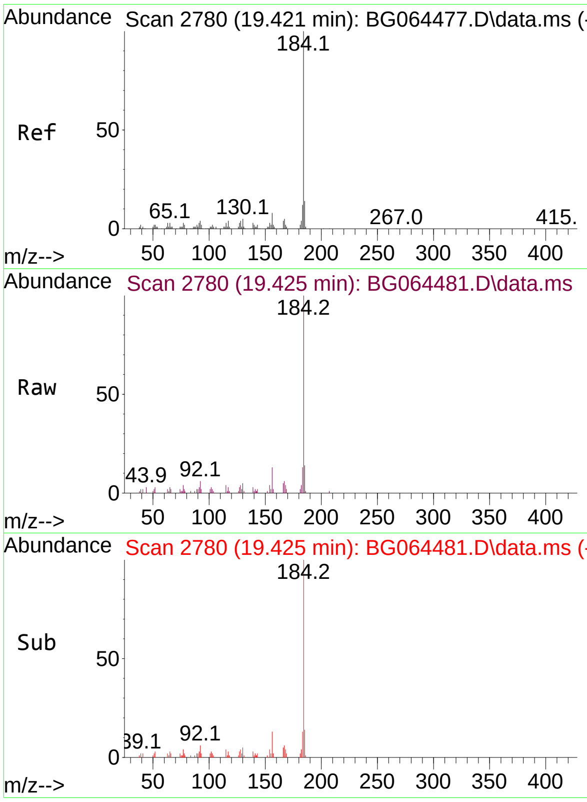



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.410 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:240 Resp: 164846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.4 | 4.3 | 6.5 |
| 236 | 24.8 | 20.4 | 30.6 |

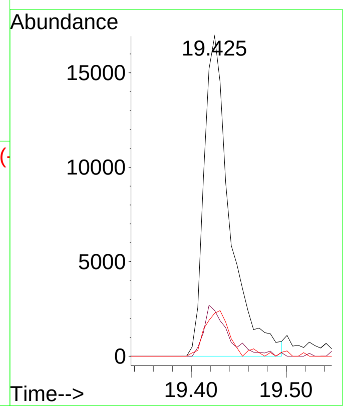





#77
Benzidine
Concen: 7.894 ng
RT: 19.425 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:184 Resp: 3238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.3 | 10.9 | 16.3 |
| 183 | 13.4 | 9.8 | 14.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Reviewed By :Rahul Chavli

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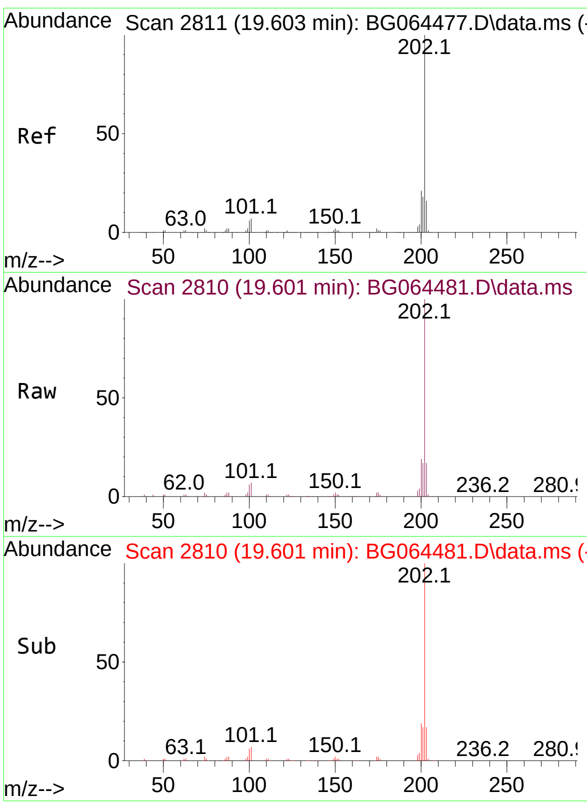
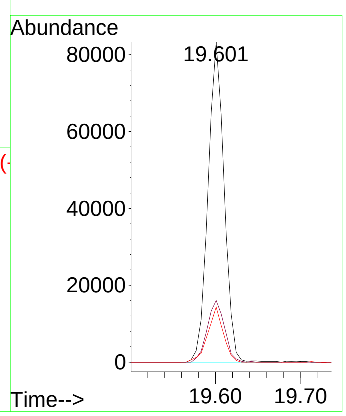
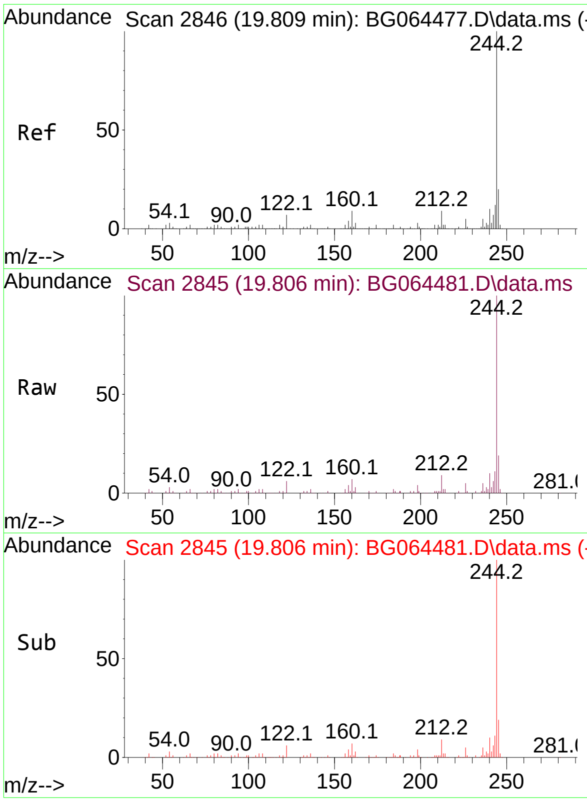



#78
Pyrene
Concen: 10.242 ng
RT: 19.601 min Scan# 2810
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:202 Resp: 109573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.3 | 17.0 | 25.4 |
| 203 | 17.2 | 13.0 | 19.4 |

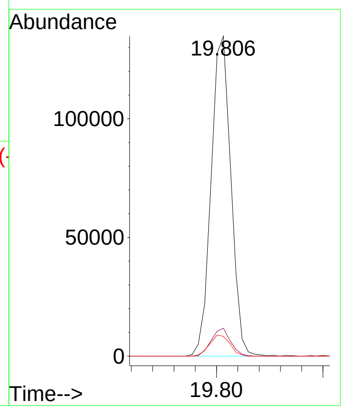





#79
Terphenyl-d14
Concen: 20.088 ng
RT: 19.806 min Scan# 28
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:244 Resp: 174977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.7 | 7.0 | 10.6 |
| 122 | 6.2 | 5.6 | 8.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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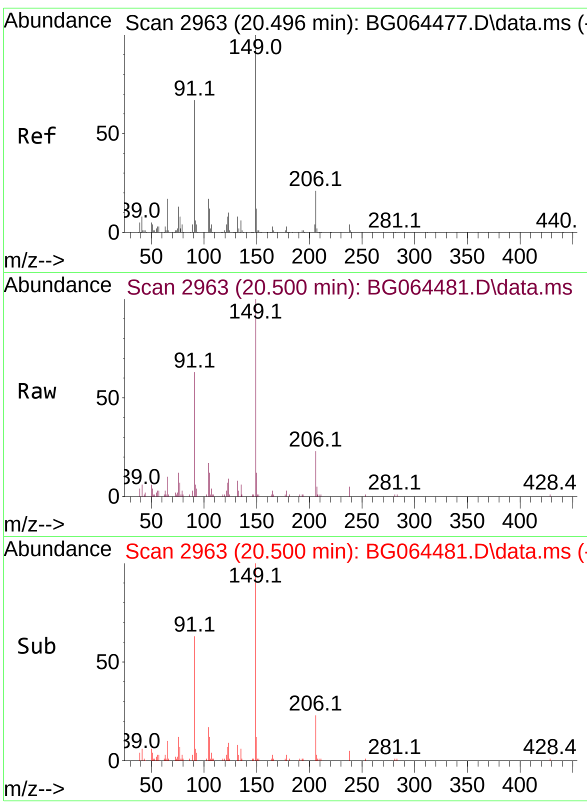
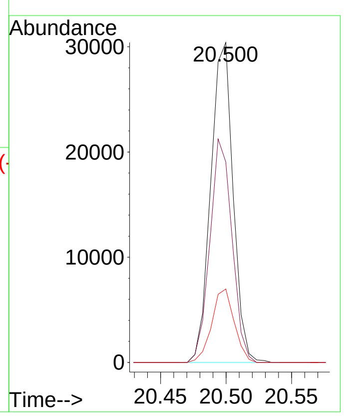
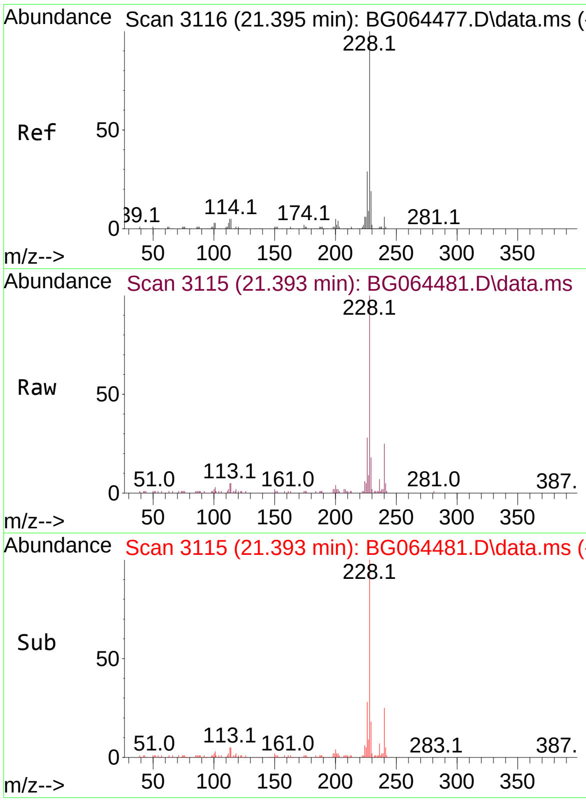



#80
Butylbenzylphthalate
Concen: 9.522 ng
RT: 20.500 min Scan# 2963
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:149 Resp: 36112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 62.6 | 53.7 | 80.5 |
| 206 | 22.9 | 16.6 | 24.8 |






#81
Benzo(a)anthracene
Concen:    9.700 ng
RT:  21.393 min  Scan# 31
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:228 Resp:  10209(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.8 | 34.2 |
| 229 | 17.5 | 15.2 | 22.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

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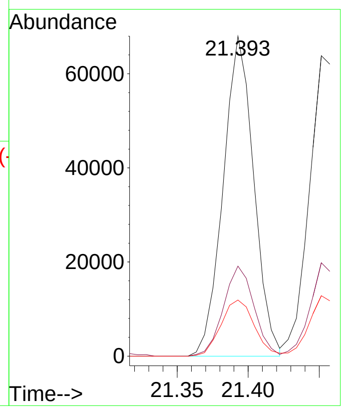
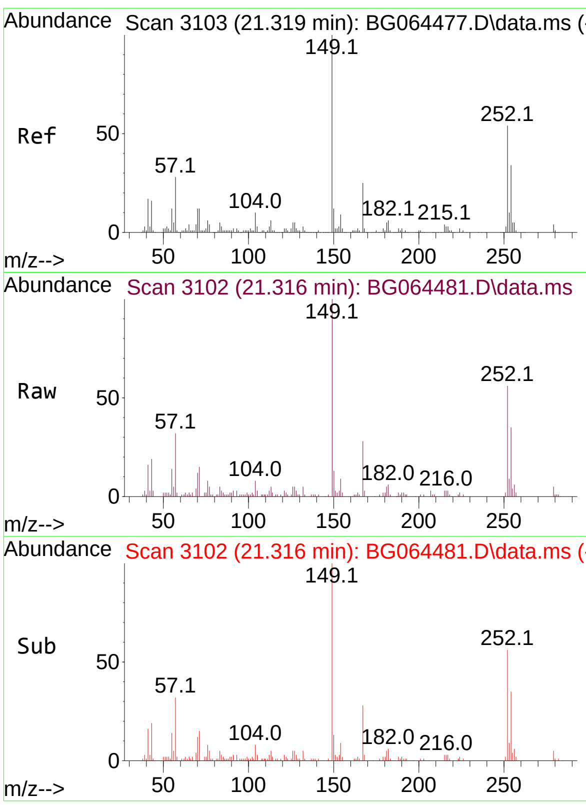
10/03/2025

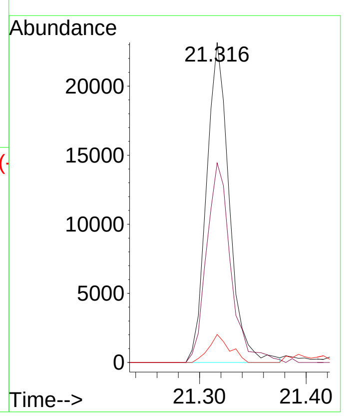



#82
3,3'-Dichlorobenzidine
Concen:    9.670 ng
RT:  21.316 min  Scan# 3102
Delta R.T.  0.000 min
Lab File:   BG064481.D
Acq:  2 Oct 2025  15:49

Tgt Ion:252 Resp:   34449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 62.3 | 50.5 | 75.7 |
| 126 | 8.7 | 7.1 | 10.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

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Reviewed By :Rahul Chavli
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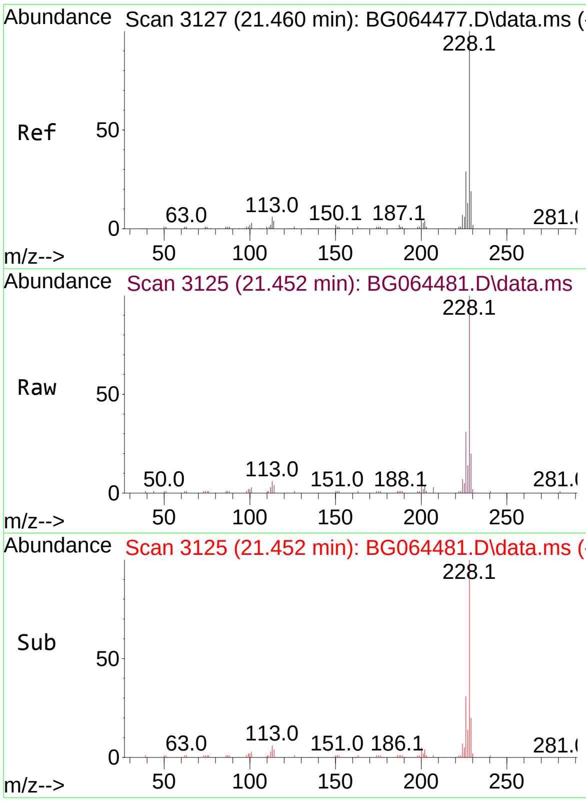
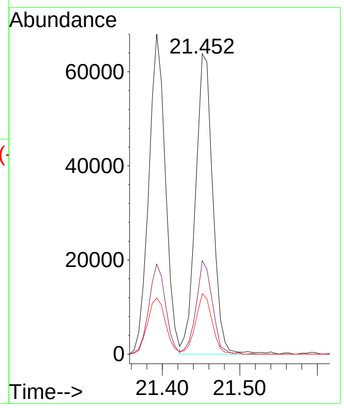
10/03/2025

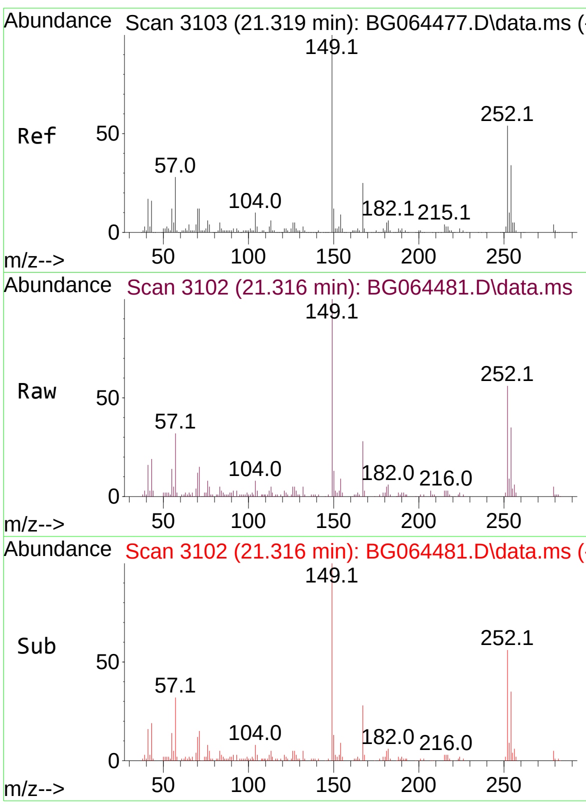



#83
Chrysene
Concen: 9.908 ng
RT: 21.452 min Scan# 31
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:228 Resp: 9889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 22.8 | 34.2 |
| 229 | 20.1 | 15.4 | 23.0 |

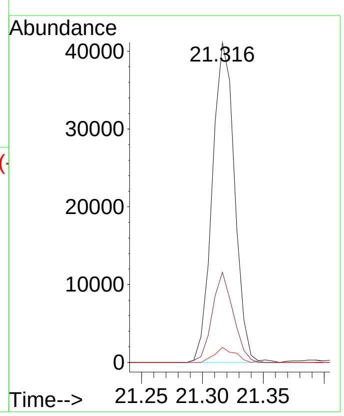


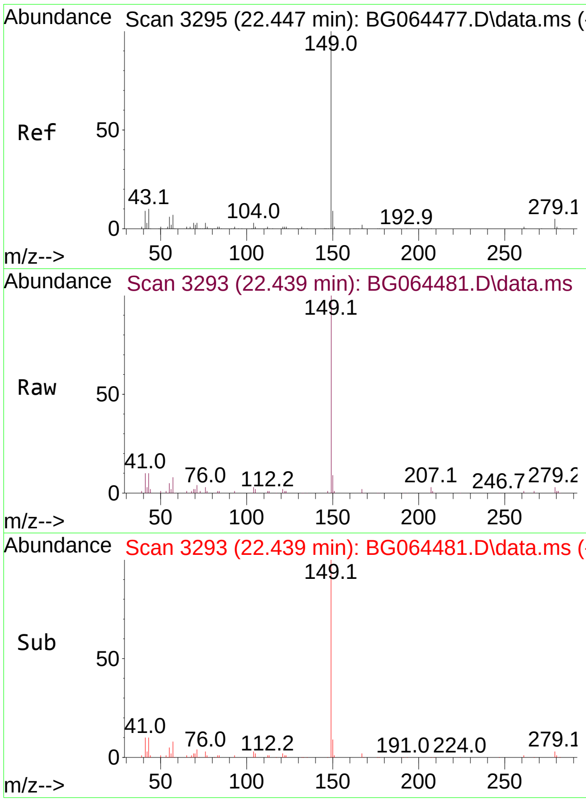




#84
Bis(2-ethylhexyl)phthalate
Concen: 9.814 ng
RT: 21.316 min Scan# 3102
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:149 Resp: 52514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.2 | 19.7 | 29.5 |
| 279 | 4.7 | 3.4 | 5.2 |






#85
Di-n-octyl phthalate
Concen: 9.673 ng
RT: 22.439 min Scan# 32
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

Tgt Ion:149 Resp: 8698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 10.5 | 7.9 | 11.9 |

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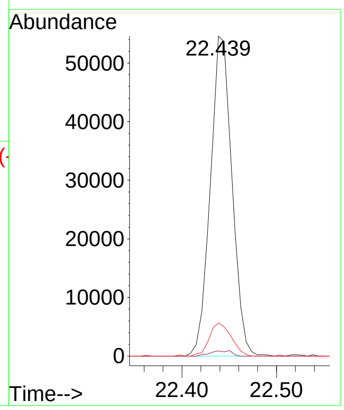
Reviewed By :Rahul Chavli

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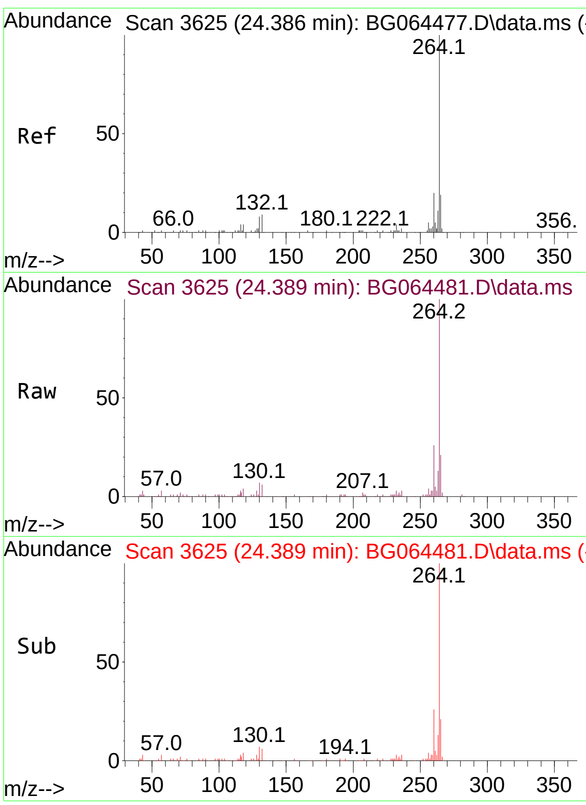
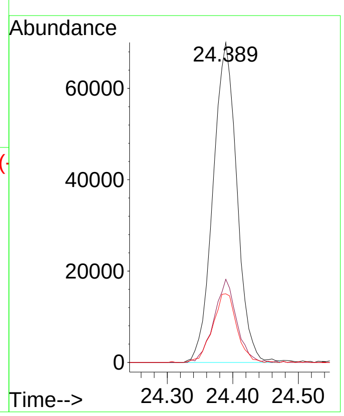


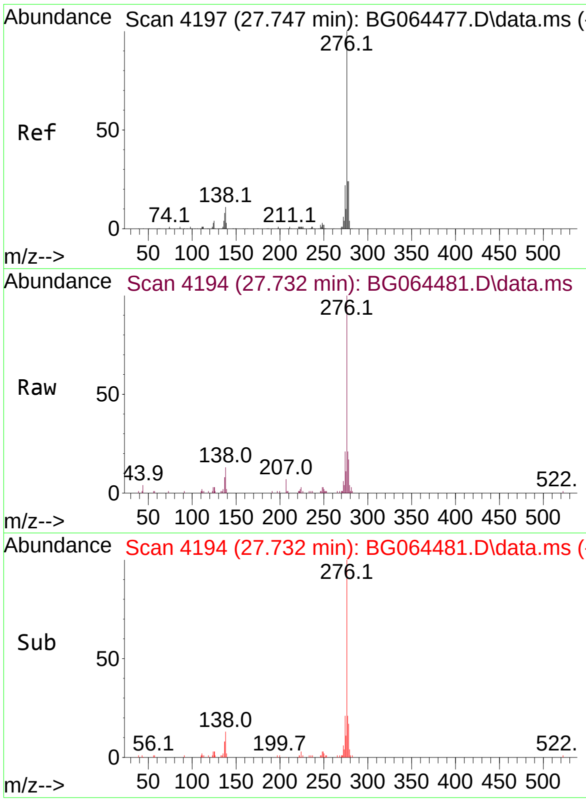

#86
Perylene-d12
Concen: 20.000 ng
RT: 24.389 min Scan# 3625
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:264 Resp: 177771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.0 | 16.2 | 24.4# |
| 265 | 21.5 | 15.0 | 22.4 |



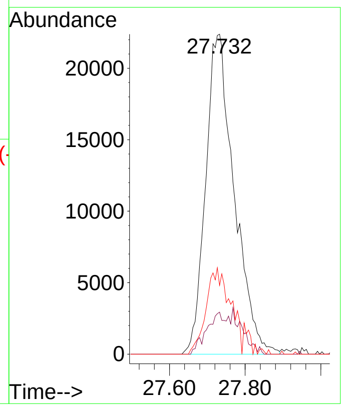
ICAL Form




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.480 ng
RT: 27.732 min Scan# 41
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:276 Resp: 11730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 8.5 | 10.8 | 16.2# |
| 277 | 9.6 | 20.3 | 30.5# |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025
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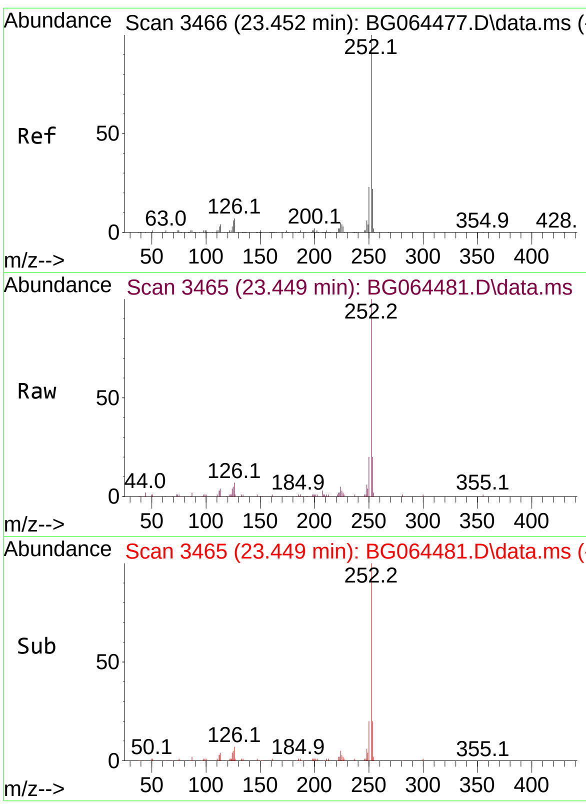
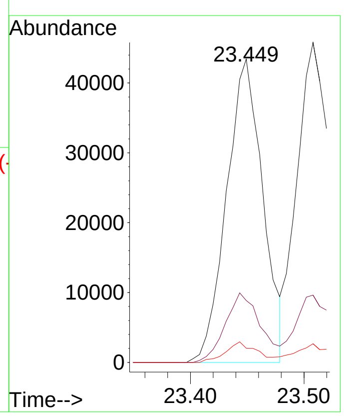
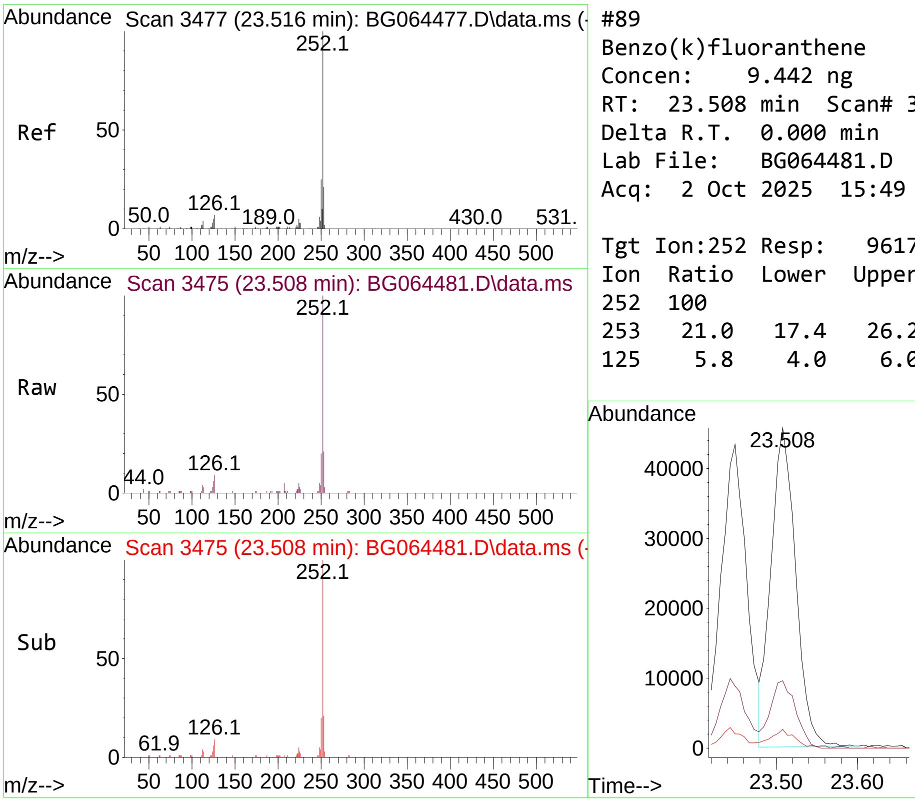



#88
Benzo(b)fluoranthene
Concen: 9.525 ng
RT: 23.449 min Scan# 3465
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:252 Resp: 96327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.4 | 17.5 | 26.3 |
| 125 | 4.7 | 4.5 | 6.7 |






#89
Benzo(k)fluoranthene
Concen: 9.442 ng
RT: 23.508 min Scan# 34
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:252 Resp: 96178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.0 | 17.4 | 26.2 |
| 125 | 5.8 | 4.0 | 6.0 |

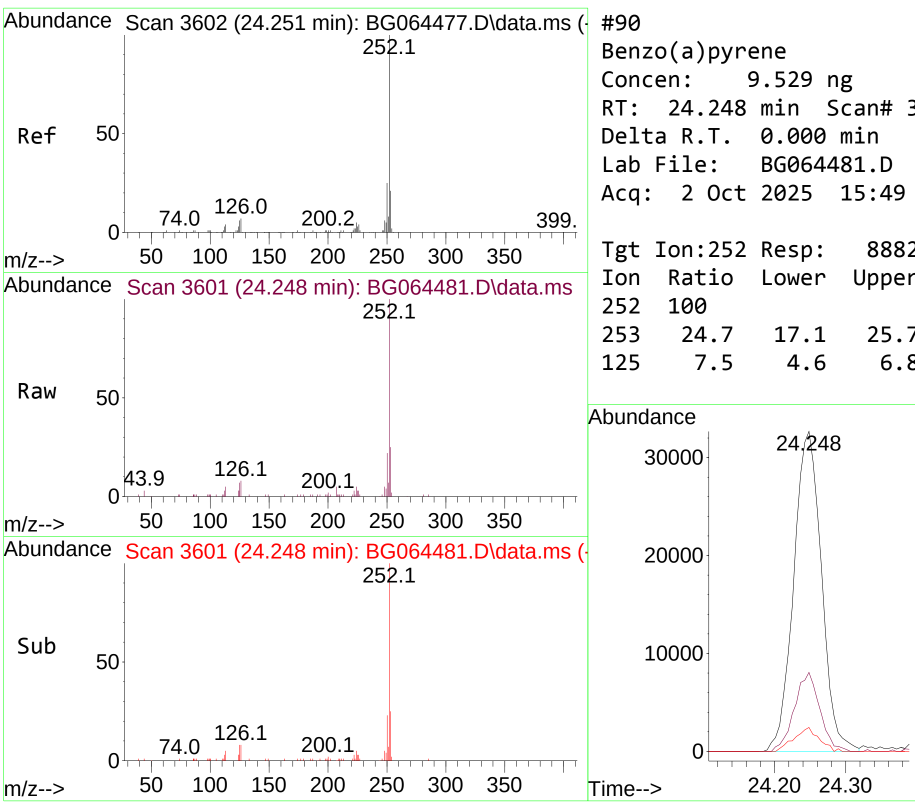
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025
Supervised By :Jagrut Upadhyay

10/03/2025

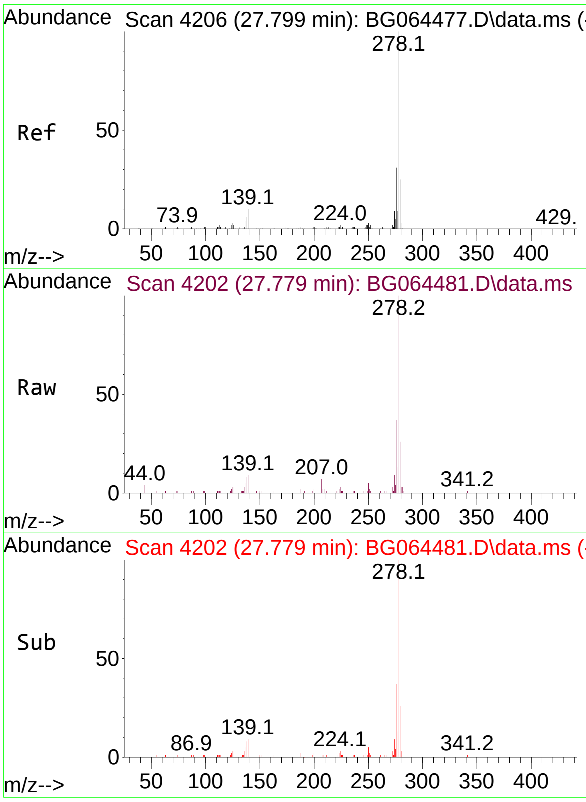



#90
Benzo(a)pyrene
Concen: 9.529 ng
RT: 24.248 min Scan# 3601
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:252 Resp: 88822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 17.1 | 25.7 |
| 125 | 7.5 | 4.6 | 6.8# |

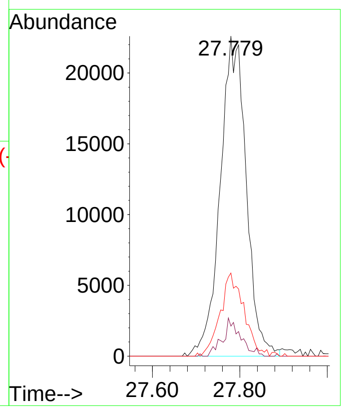
ICAL Form




#91
Dibenzo(a,h)anthracene
Concen: 9.457 ng
RT: 27.779 min Scan# 42
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:278 Resp: 93585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 9.4 | 8.2 | 12.2 |
| 279 | 26.0 | 19.6 | 29.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli

10/03/2025
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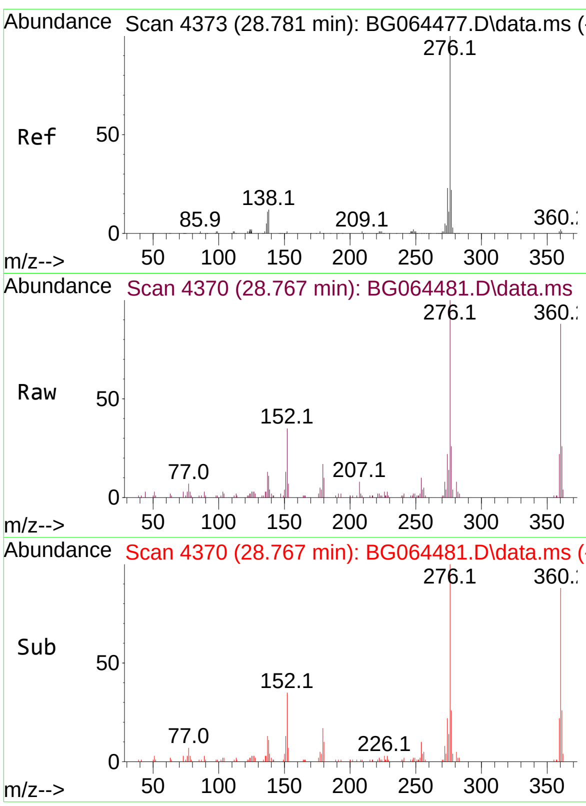
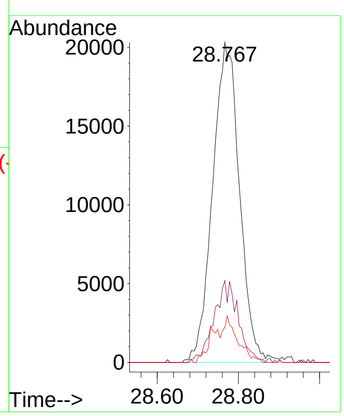
10/03/2025




#92
Benzo(g,h,i)perylene
Concen: 9.735 ng
RT: 28.767 min Scan# 4370
Delta R.T. 0.000 min
Lab File: BG064481.D
Acq: 2 Oct 2025 15:49

Tgt Ion:276 Resp: 93612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.5 | 17.8 | 26.6 |
| 138 | 15.1 | 9.4 | 14.0# |



Quantitation Report (QT Reviewed)

ICAL Form

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Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.826 | 152 | 15318 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.611 | 136 | 68102 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.448 | 164 | 53704 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.186 | 188 | 136982 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.416 | 240 | 140392 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.389 | 264 | 148372 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.411 | 112 | 62374 | 75.359 | ng | | 0.00 |
| 7) Phenol-d6 | 6.998 | 99 | 86196 | 77.494 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 8.978 | 82 | 92457 | 72.999 | ng | | 0.01 |
| 42) 2,4,6-Tribromophenol | 15.940 | 330 | 74669 | 76.705 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.073 | 172 | 271576 | 74.539 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.806 | 244 | 564322 | 76.071 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.326 | 88 | 12001 | 36.657 | ng | | 96 |
| 3) Pyridine | 3.713 | 79 | 31163 | 35.418 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.631 | 42 | 24896 | 39.031 | ng | | 91 |
| 6) Aniline | 7.151 | 93 | 57677 | 41.109 | ng | | 98 |
| 8) 2-Chlorophenol | 7.391 | 128 | 37701 | 37.094 | ng | | 96 |
| 9) Benzaldehyde | 6.963 | 77 | 31860 | 32.268 | ng | | 96 |
| 10) Phenol | 7.021 | 94 | 45072 | 38.413 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.250 | 93 | 29672 | 37.341 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 7.715 | 146 | 41698 | 37.504 | ng | | 94 |
| 13) 1,4-Dichlorobenzene | 7.856 | 146 | 44492 | 39.872 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 8.173 | 146 | 42303 | 38.466 | ng | | 96 |
| 15) Benzyl Alcohol | 8.061 | 79 | 41748 | 40.756 | ng | | 88 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.349 | 45 | 48934 | 38.204 | ng | | 93 |
| 17) 2-Methylphenol | 8.267 | 107 | 32757 | 38.553 | ng | | 96 |
| 18) Hexachloroethane | 8.901 | 117 | 16683 | 37.877 | ng | | 92 |
| 19) n-Nitroso-di-n-propyla... | 8.625 | 70 | 30487 | 40.984 | ng | # | 92 |
| 20) 3+4-Methylphenols | 8.596 | 107 | 46114 | 38.893 | ng | | 92 |
| 22) Acetophenone | 8.637 | 105 | 65802 | 39.906 | ng | # | 98 |
| 24) Nitrobenzene | 9.019 | 77 | 46946 | 37.170 | ng | | 95 |
| 25) Isophorone | 9.542 | 82 | 89937 | 39.198 | ng | # | 97 |
| 26) 2-Nitrophenol | 9.724 | 139 | 22245 | 35.388 | ng | # | 84 |
| 27) 2,4-Dimethylphenol | 9.789 | 122 | 40285 | 41.959 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 10.024 | 93 | 45075 | 38.540 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 10.259 | 162 | 43141 | 38.857 | ng | | 86 |
| 30) 1,2,4-Trichlorobenzene | 10.476 | 180 | 46901 | 38.743 | ng | | 97 |
| 31) Naphthalene | 10.658 | 128 | 134984 | 38.491 | ng | | 97 |
| 32) Benzoic acid | 9.941 | 122 | 29650m | 40.223 | ng | | |
| 33) 4-Chloroaniline | 10.770 | 127 | 57575 | 42.784 | ng | | 91 |
| 34) Hexachlorobutadiene | 10.952 | 225 | 37931 | 36.587 | ng | | 93 |
| 35) Caprolactam | 11.534 | 113 | 14752 | 38.812 | ng | | 94 |
| 36) 4-Chloro-3-methylphenol | 11.898 | 107 | 51832 | 38.389 | ng | | 96 |
| 37) 2-Methylnaphthalene | 12.268 | 142 | 94732 | 35.191 | ng | | 97 |
| 38) 1-Methylnaphthalene | 12.491 | 142 | 99137 | 36.933 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.644 | 216 | 66779 | 38.511 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 12.621 | 237 | 45790 | 50.483 | ng | | 91 |
| 43) 2,4,6-Trichlorophenol | 12.879 | 196 | 43264 | 39.030 | ng | | 97 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.955 | 196 | 46812 | 37.827 ng | | 90 |
| 46) 1,1'-Biphenyl | 13.285 | 154 | 149616 | 38.735 ng | | 98 |
| 47) 2-Chloronaphthalene | 13.326 | 162 | 108769 | 37.716 ng | | 95 |
| 48) 2-Nitroaniline | 13.531 | 65 | 38535 | 39.151 ng | | 98 |
| 49) Acenaphthylene | 14.172 | 152 | 187686 | 43.842 ng | | 97 |
| 50) Dimethylphthalate | 13.907 | 163 | 159424 | 37.903 ng | | 97 |
| 51) 2,6-Dinitrotoluene | 14.025 | 165 | 33945 | 38.742 ng | | 92 |
| 52) Acenaphthene | 14.512 | 154 | 109054 | 36.666 ng | | 98 |
| 53) 3-Nitroaniline | 14.354 | 138 | 32910 | 40.727 ng | | 97 |
| 54) 2,4-Dinitrophenol | 14.559 | 184 | 21309 | 33.540 ng | # | 81 |
| 55) Dibenzofuran | 14.847 | 168 | 187307 | 38.141 ng | | 97 |
| 56) 4-Nitrophenol | 14.671 | 139 | 25265 | 39.712 ng | | 87 |
| 57) 2,4-Dinitrotoluene | 14.812 | 165 | 52757 | 39.388 ng | | 98 |
| 58) Fluorene | 15.500 | 166 | 161086 | 39.456 ng | | 97 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.077 | 232 | 50545 | 40.021 ng | | 100 |
| 60) Diethylphthalate | 15.276 | 149 | 172891 | 38.317 ng | | 97 |
| 61) 4-Chlorophenyl-phenyle... | 15.494 | 204 | 81203 | 36.432 ng | | 98 |
| 62) 4-Nitroaniline | 15.517 | 138 | 34897 | 41.435 ng | | 92 |
| 63) Azobenzene | 15.787 | 77 | 134722 | 38.553 ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 15.582 | 198 | 36085 | 37.834 ng | | 92 |
| 66) n-Nitrosodiphenylamine | 15.705 | 169 | 137047 | 37.465 ng | | 93 |
| 67) 4-Bromophenyl-phenylether | 16.387 | 248 | 59351 | 36.819 ng | | 95 |
| 68) Hexachlorobenzene | 16.504 | 284 | 67918 | 36.821 ng | | 96 |
| 69) Atrazine | 16.657 | 200 | 68476 | 42.076 ng | | 98 |
| 70) Pentachlorophenol | 16.845 | 266 | 38853 | 36.025 ng | | 91 |
| 71) Phenanthrene | 17.233 | 178 | 265823 | 37.108 ng | | 96 |
| 72) Anthracene | 17.321 | 178 | 274231 | 38.159 ng | | 99 |
| 73) Carbazole | 17.591 | 167 | 246445 | 39.673 ng | | 99 |
| 74) Di-n-butylphthalate | 18.155 | 149 | 294614 | 38.852 ng | | 99 |
| 75) Fluoranthene | 19.242 | 202 | 331530 | 38.739 ng | | 100 |
| 77) Benzidine | 19.424 | 184 | 152917 | 43.772 ng | | 98 |
| 78) Pyrene | 19.601 | 202 | 335798 | 36.856 ng | | 99 |
| 80) Butylbenzylphthalate | 20.500 | 149 | 121325 | 37.565 ng | | 98 |
| 81) Benzo(a)anthracene | 21.393 | 228 | 339443 | 37.867 ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 21.316 | 252 | 128504 | 42.355 ng | | 97 |
| 83) Chrysene | 21.457 | 228 | 309731 | 36.434 ng | | 97 |
| 84) Bis(2-ethylhexyl)phtha... | 21.316 | 149 | 168982 | 37.082 ng | | 99 |
| 85) Di-n-octyl phthalate | 22.444 | 149 | 281232 | 36.720 ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 27.738 | 276 | 390549 | 37.816 ng | | 99 |
| 88) Benzo(b)fluoranthene | 23.449 | 252 | 315880 | 37.423 ng | | 99 |
| 89) Benzo(k)fluoranthene | 23.514 | 252 | 337015 | 39.643 ng | | 99 |
| 90) Benzo(a)pyrene | 24.254 | 252 | 307034 | 39.468 ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 27.791 | 278 | 318677 | 38.585 ng | | 96 |
| 92) Benzo(g,h,i)perylene | 28.784 | 276 | 317018 | 39.498 ng | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

ICAL Form

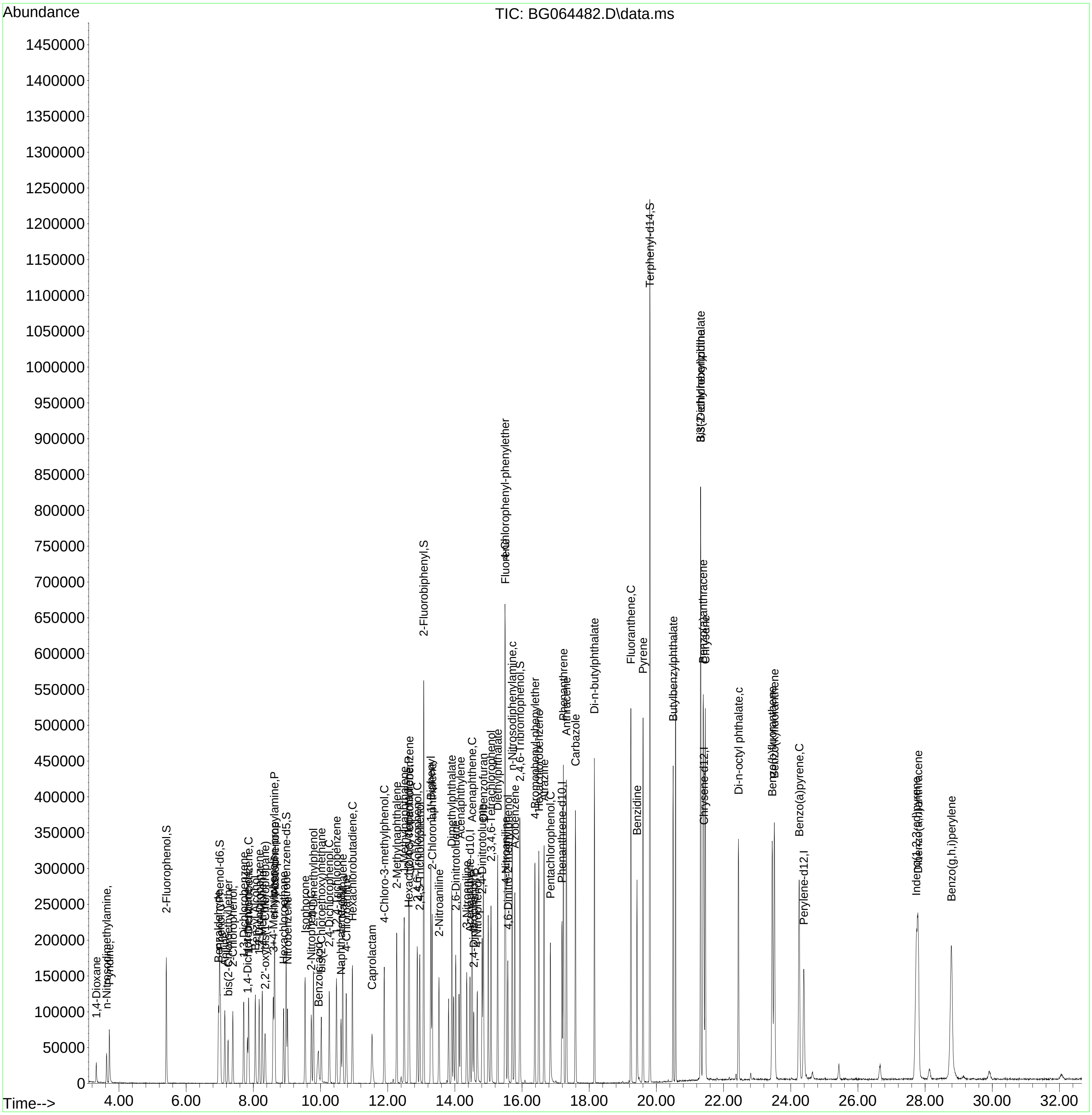
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

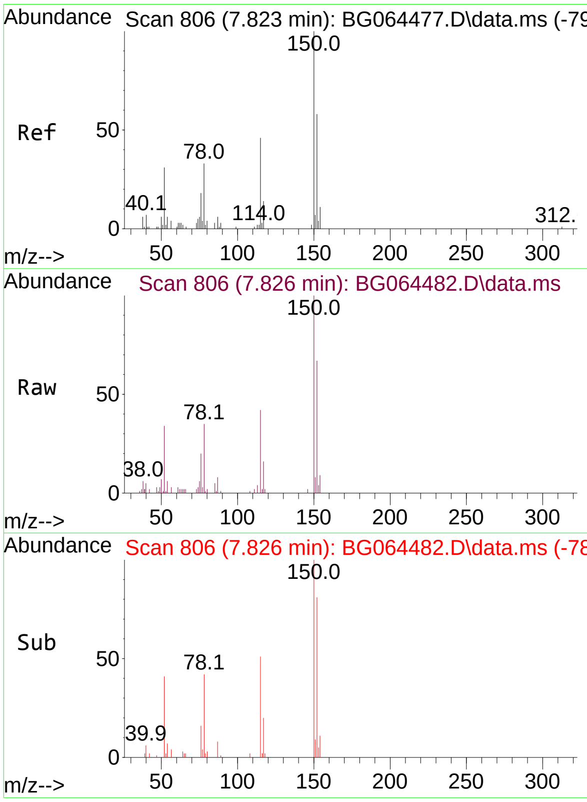
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration






#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.826 min Scan# 80
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

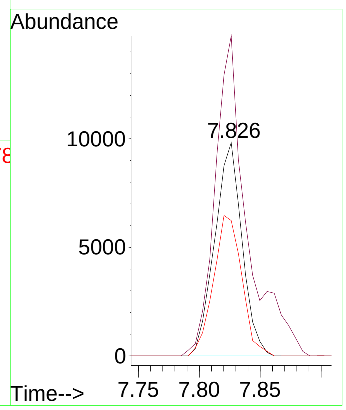
Tgt Ion:152 Resp: 15318

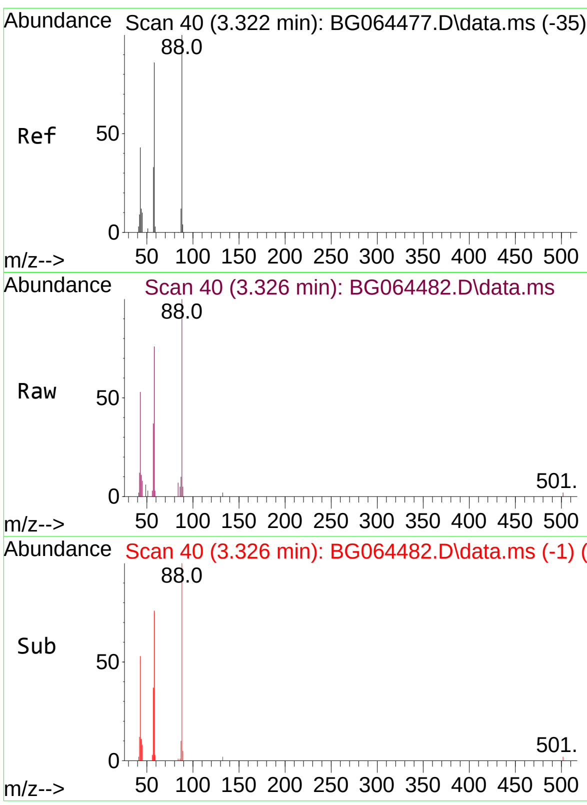
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.1 | 138.6 | 207.8 |
| 115 | 63.5 | 63.4 | 95.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

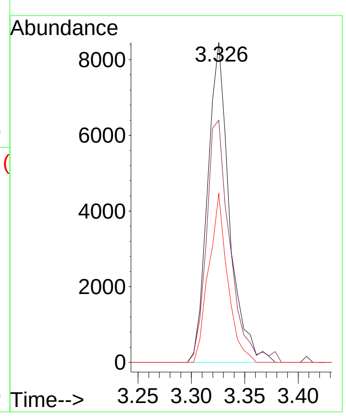


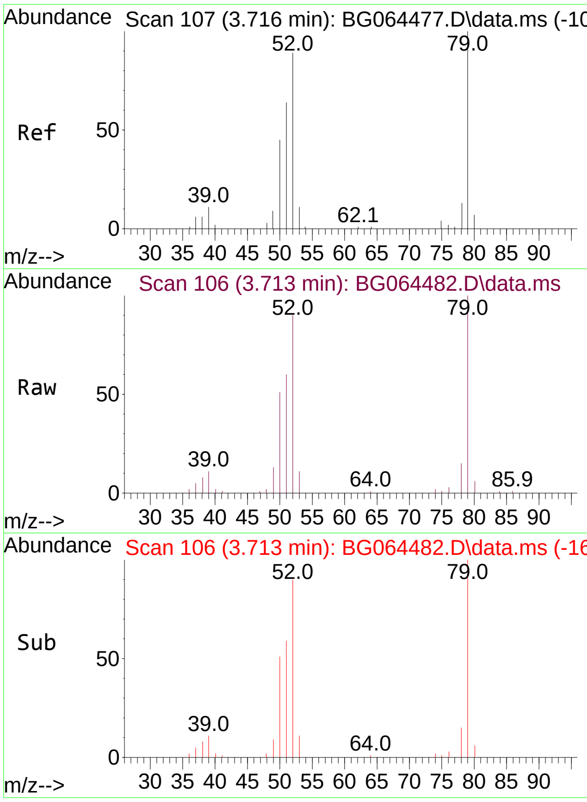




#2
1,4-Dioxane
Concen: 36.657 ng
RT: 3.326 min Scan# 40
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 88 Resp: 12001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 81.6 | 69.8 | 104.6 |
| 43 | 45.8 | 37.4 | 56.0 |

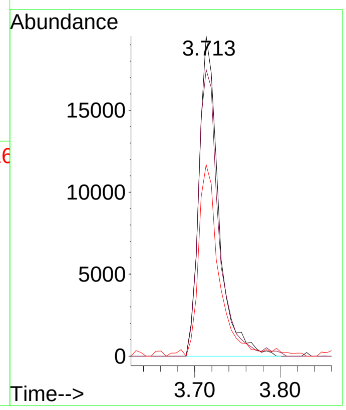





#3
Pyridine
Concen: 35.418 ng
RT: 3.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 79 Resp: 3116

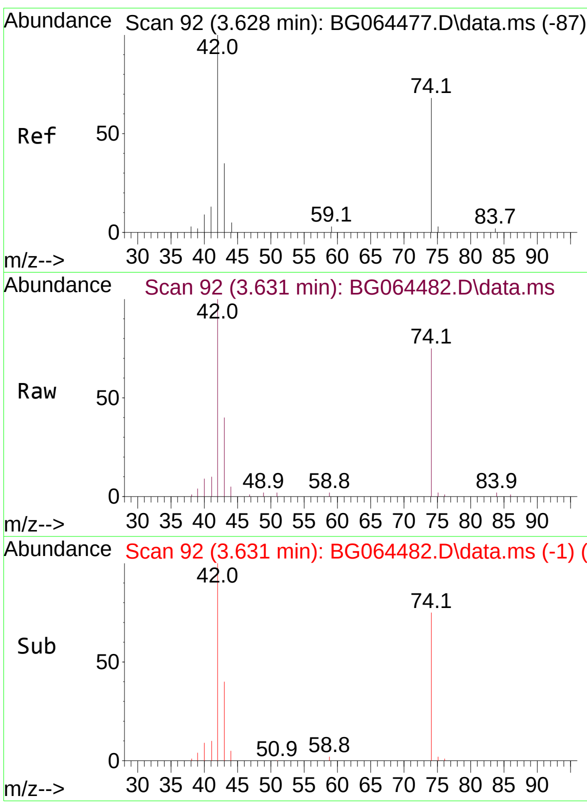
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 89.5 | 71.0 | 106.4 |
| 51 | 59.8 | 51.0 | 76.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

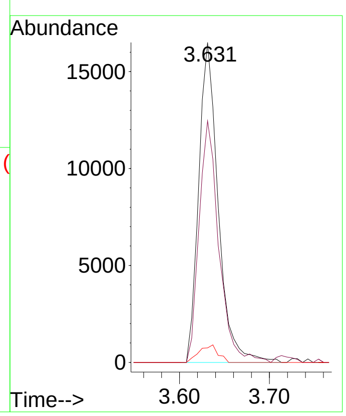
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#4
n-Nitrosodimethylamine
Concen: 39.031 ng
RT: 3.631 min Scan# 92
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 42 Resp: 24896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 75.5 | 54.2 | 81.4 |
| 44 | 4.5 | 4.2 | 6.2 |

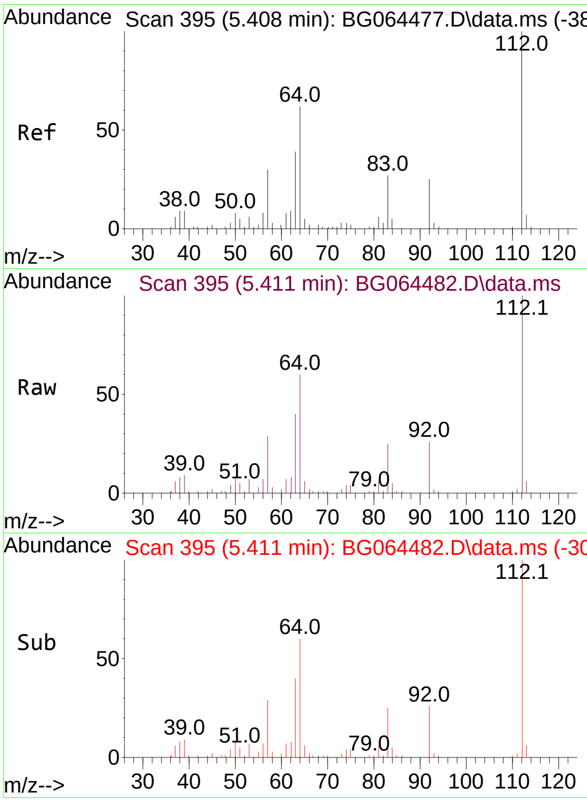


ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**

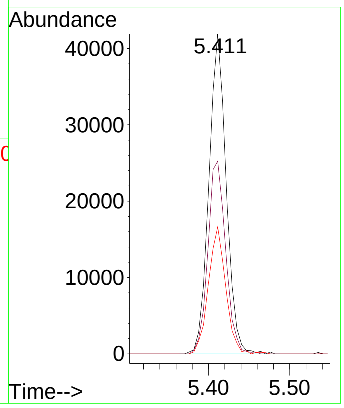
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

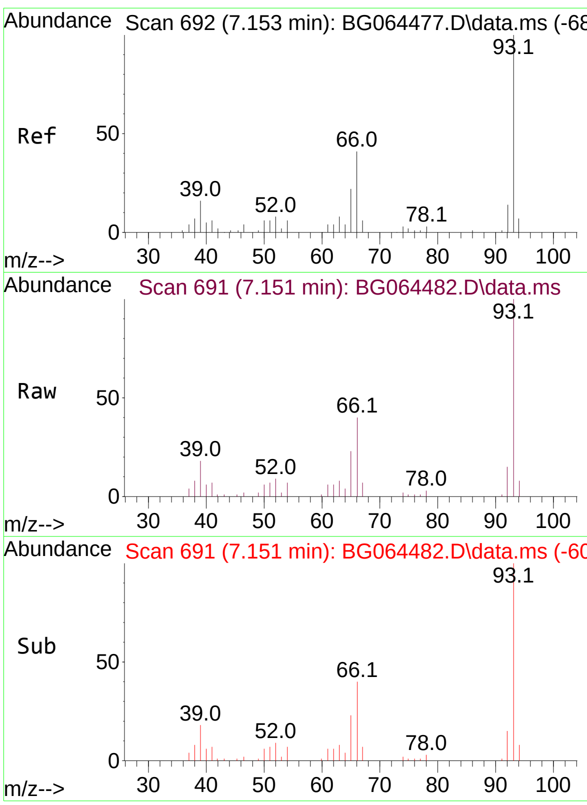



#5
2-Fluorophenol
Concen: 75.359 ng
RT: 5.411 min Scan# 39
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:112 Resp: 6237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.2 | 49.8 | 74.8 |
| 63 | 39.7 | 31.3 | 46.9 |

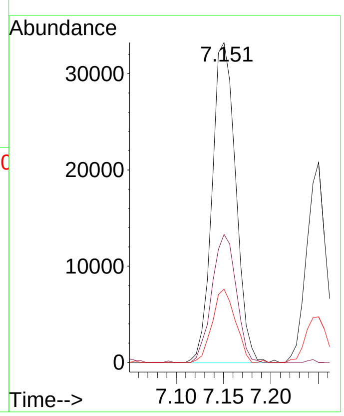



#6
Aniline
Concen: 41.109 ng
RT: 7.151 min Scan# 691
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 93 Resp: 57677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.0 | 33.0 | 49.4 |
| 65 | 22.9 | 17.5 | 26.3 |

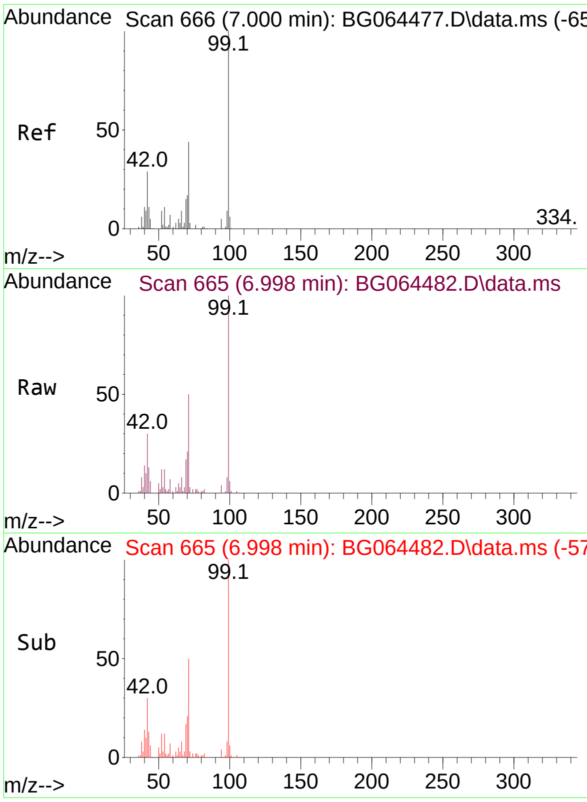


ICAL Form

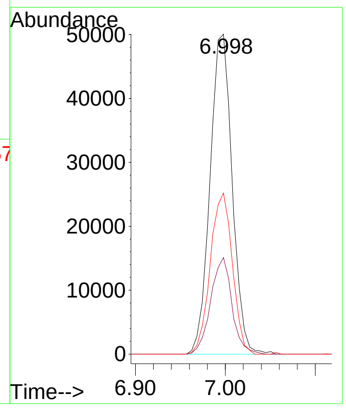
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

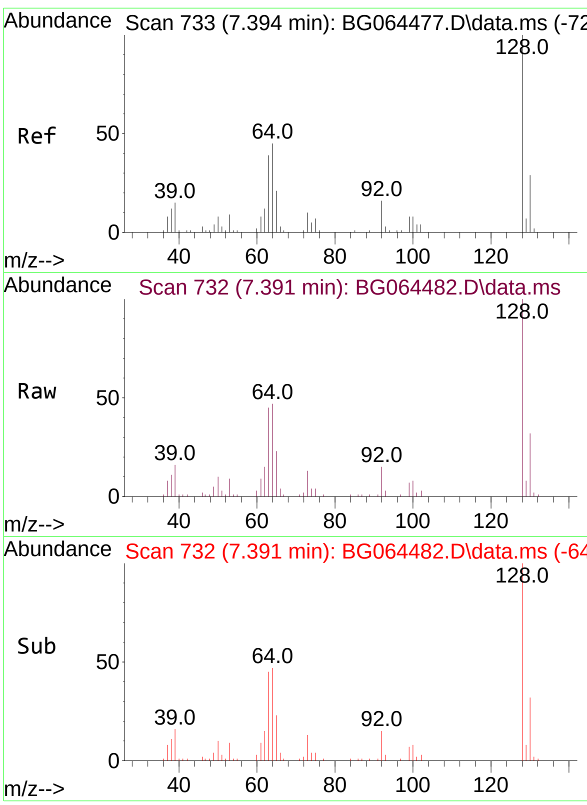
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

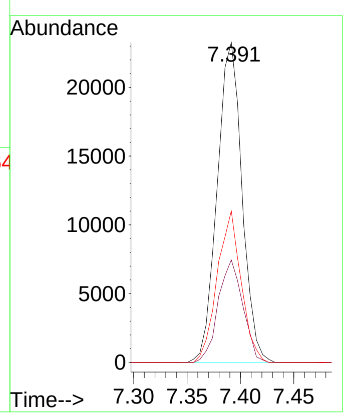


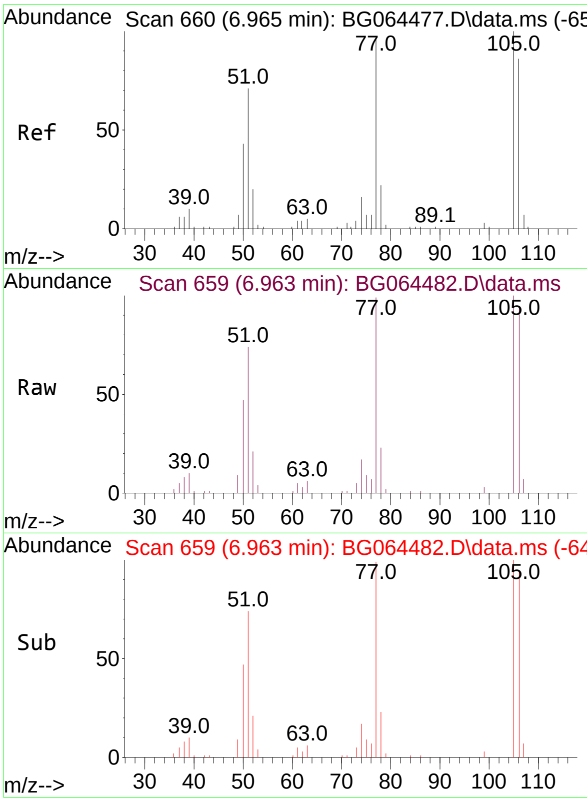

```
#7
Phenol-d6
Concen:   77.494 ng
RT:   6.998 min  Scan# 66
Delta R.T.  0.012 min
Lab File:   BG064482.D
Acq:  2 Oct 2025  18:09

Tgt Ion: 99 Resp:   86196
Ion  Ratio  Lower  Upper
 99  100
 42   30.2   22.9   34.3
 71   50.3   35.4   53.2
```




```
#8
2-Chlorophenol
Concen:   37.094 ng
RT:   7.391 min  Scan# 732
Delta R.T.  0.006 min
Lab File:   BG064482.D
Acq:  2 Oct 2025  18:09

Tgt Ion:128 Resp:   37701
Ion  Ratio  Lower  Upper
128  100
130   32.0    9.2   49.2
 64   47.3   25.5   65.5
```





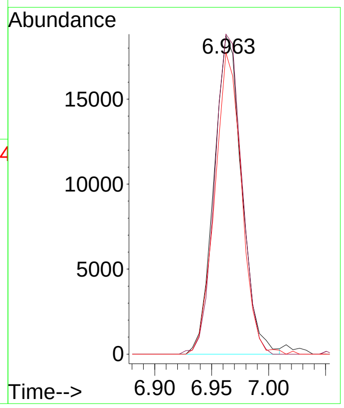

#9
Benzaldehyde
Concen: 32.268 ng
RT: 6.963 min Scan# 65
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

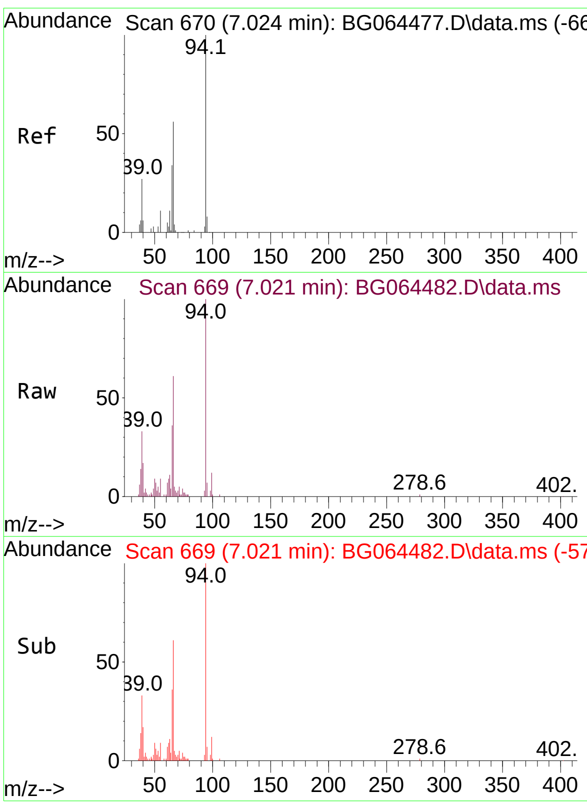
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Tgt Ion: 77 Resp: 3186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 100.6 | 83.7 | 123.7 |
| 106 | 94.7 | 69.4 | 109.4 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

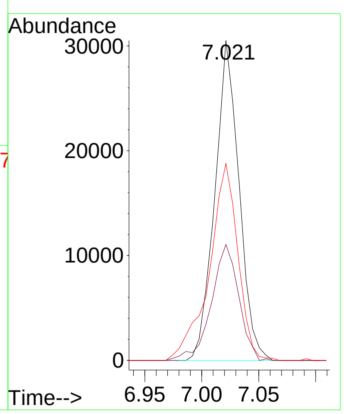


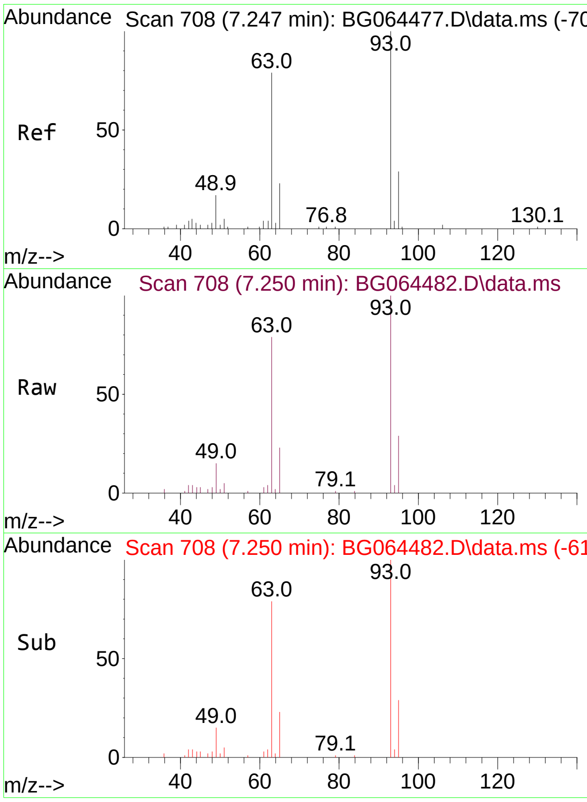

#10
Phenol
Concen: 38.413 ng
RT: 7.021 min Scan# 669
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 94 Resp: 45072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 36.2 | 14.8 | 54.8 |
| 66 | 61.5 | 41.4 | 81.4 |



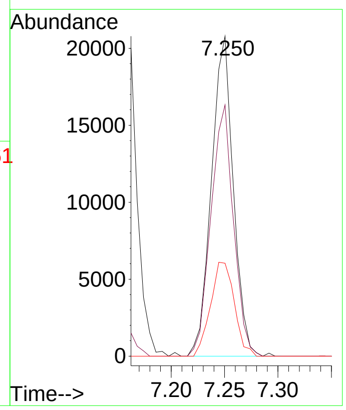
ICAL Form




#11
bis(2-Chloroethyl)ether
Concen: 37.341 ng
RT: 7.250 min Scan# 70
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

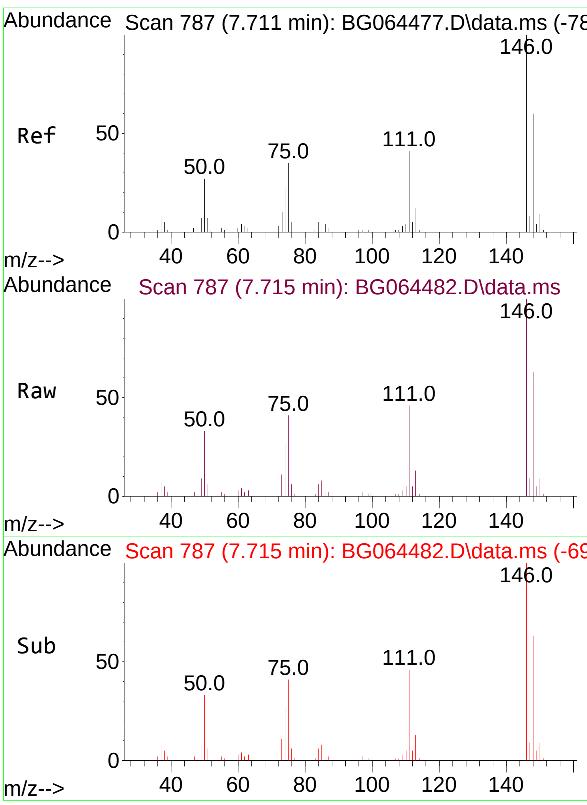
Tgt Ion: 93 Resp: 29672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.5 | 59.5 | 99.5 |
| 95 | 29.0 | 8.8 | 48.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

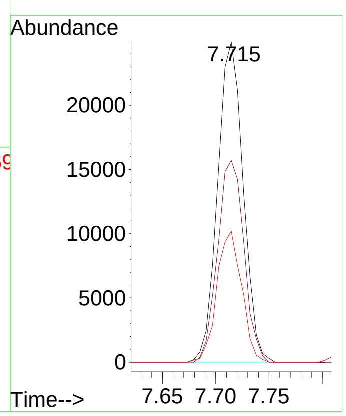
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#12
1,3-Dichlorobenzene
Concen: 37.504 ng
RT: 7.715 min Scan# 787
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:146 Resp: 41698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.1 | 48.4 | 72.6 |
| 75 | 41.0 | 28.3 | 42.5 |

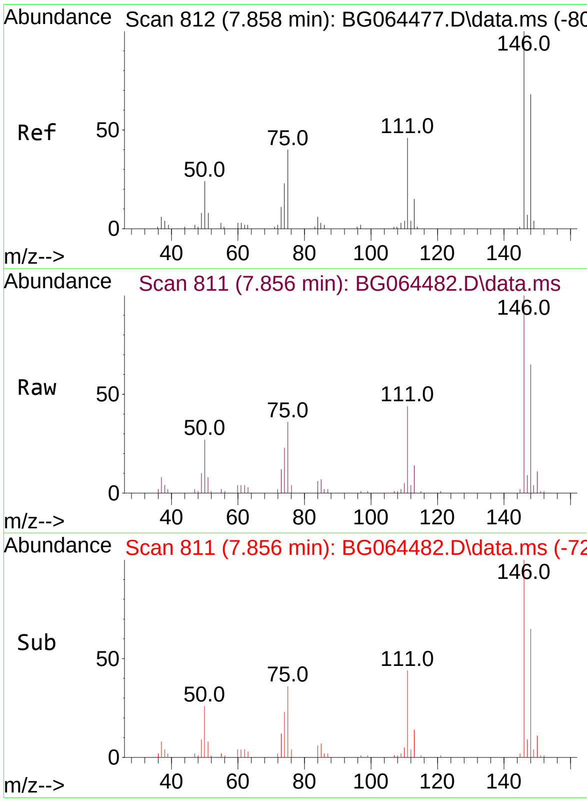


ICAL Form

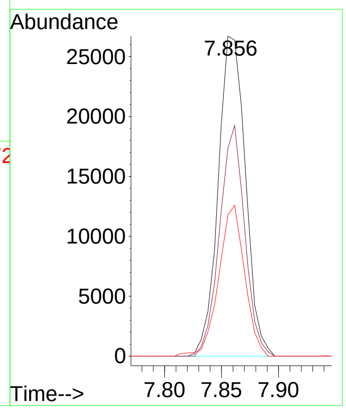
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

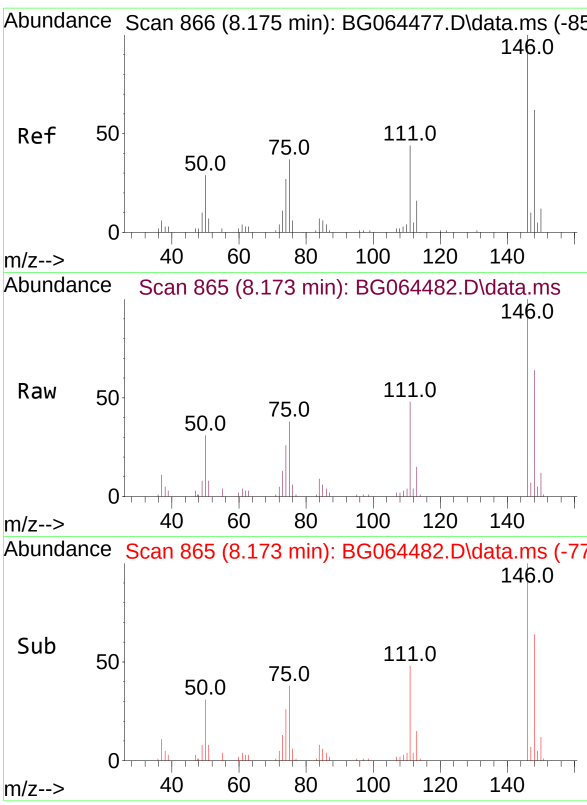
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

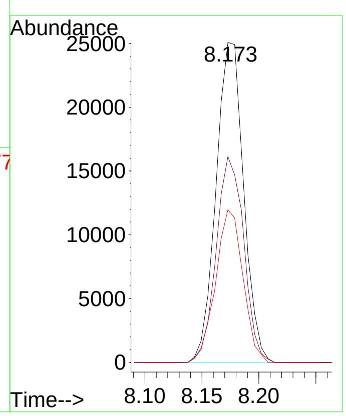



```
#13
1,4-Dichlorobenzene
Concen:   39.872 ng
RT:   7.856 min   Scan# 81
Delta R.T.   -0.000 min
Lab File:   BG064482.D
Acq:  2 Oct 2025   18:09

Tgt Ion:146 Resp:   4449
Ion   Ratio   Lower   Upper
146   100
148    65.0    54.4    81.6
111    44.1    36.5    54.7
```




```
#14
1,2-Dichlorobenzene
Concen:   38.466 ng
RT:   8.173 min   Scan# 865
Delta R.T.   -0.000 min
Lab File:   BG064482.D
Acq:  2 Oct 2025   18:09

Tgt Ion:146 Resp:   42303
Ion   Ratio   Lower   Upper
146   100
148    64.3    50.0    75.0
111    47.7    35.0    52.4
```



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

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Reviewed By :Rahul Chavli 10/03/2025
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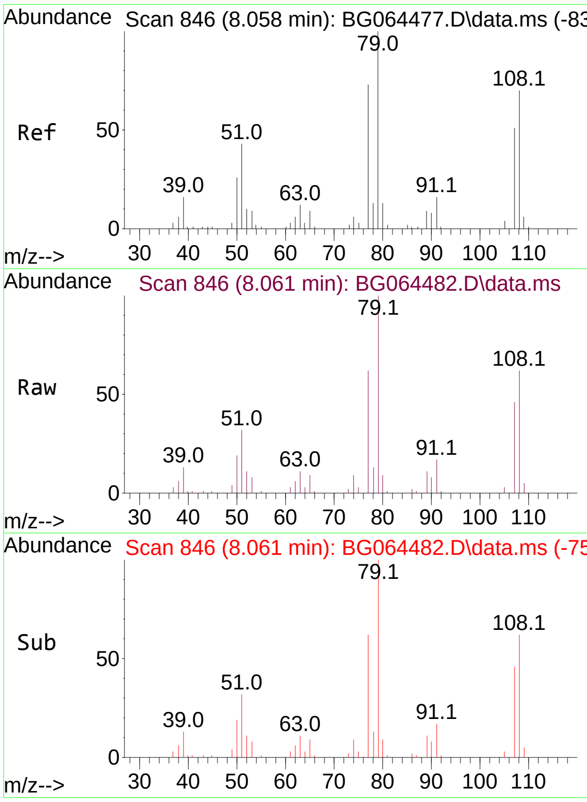
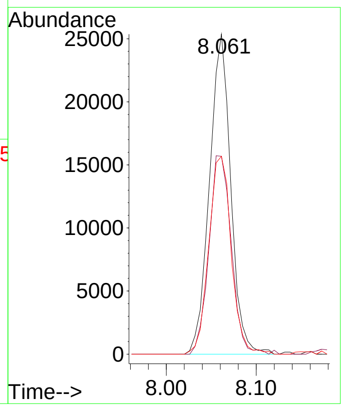
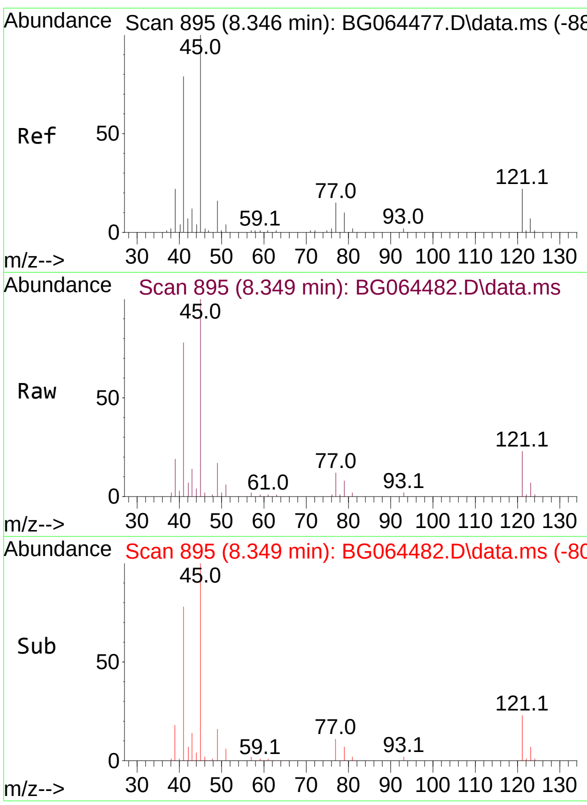



#15
Benzyl Alcohol
Concen: 40.756 ng
RT: 8.061 min Scan# 84
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 79 Resp: 41748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 61.8 | 56.4 | 84.6 |
| 77 | 61.8 | 58.3 | 87.5 |

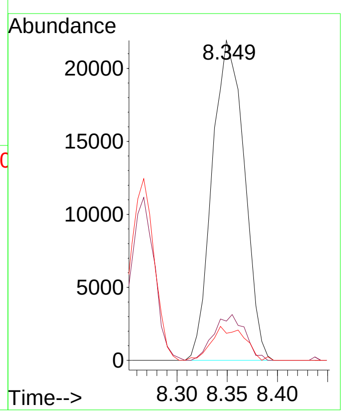



#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.204 ng
RT: 8.349 min Scan# 895
Delta R.T. 0.012 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 45 Resp: 48934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 12.3 | 0.0 | 35.6 |
| 79 | 8.5 | 0.0 | 30.7 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
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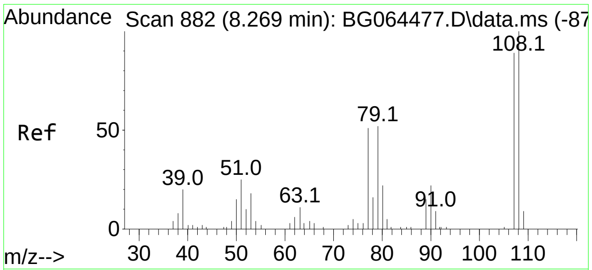
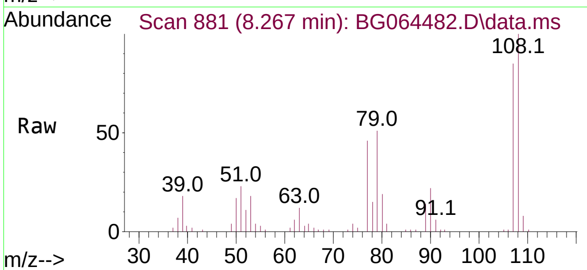
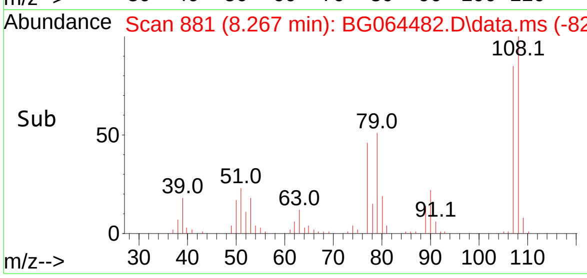
Supervised By :Jagrut Upadhyay 10/03/2025



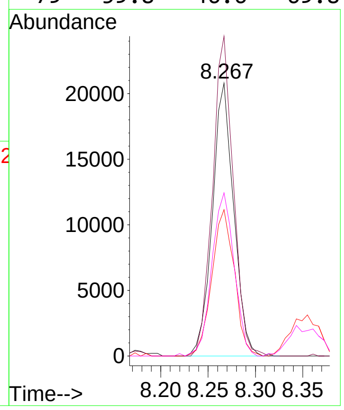



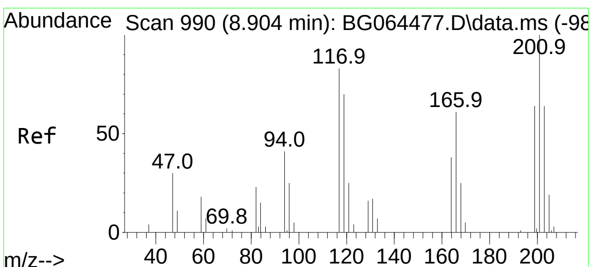



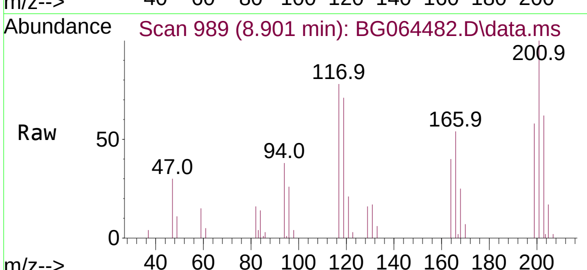

#17
2-Methylphenol
Concen: 38.553 ng
RT: 8.267 min Scan# 88
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

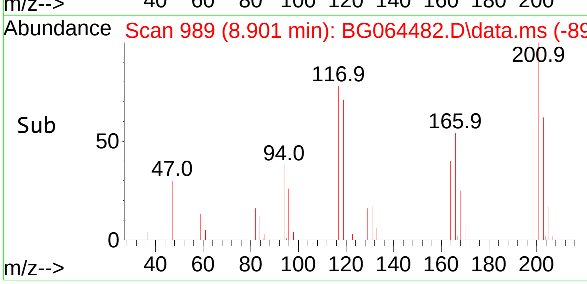
Tgt Ion:107 Resp: 32757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 117.2 | 90.3 | 135.5 |
| 77 | 53.7 | 46.0 | 69.0 |
| 79 | 59.8 | 46.6 | 69.8 |



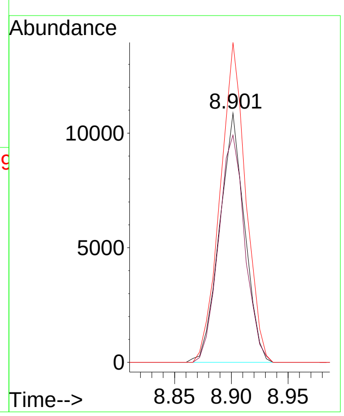



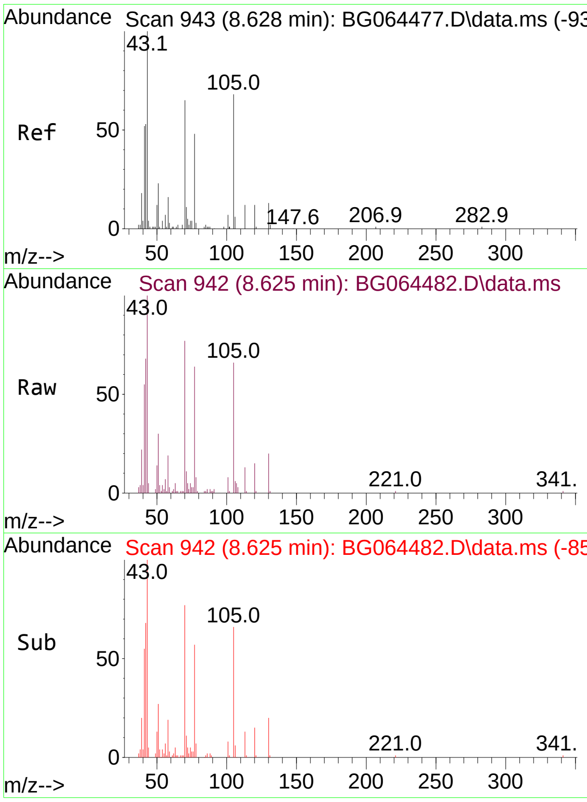




#18
Hexachloroethane
Concen: 37.877 ng
RT: 8.901 min Scan# 989
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:117 Resp: 16683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.2 | 67.4 | 101.0 |
| 201 | 128.4 | 95.9 | 143.9 |





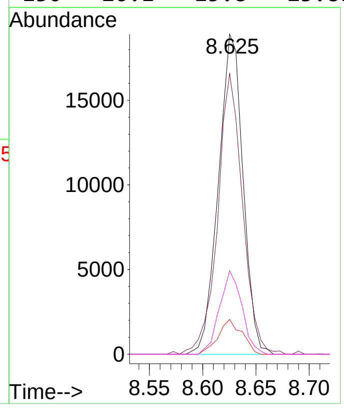

#19
n-Nitroso-di-n-propylamine
Concen: 40.984 ng
RT: 8.625 min Scan# 94
Delta R.T. 0.012 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

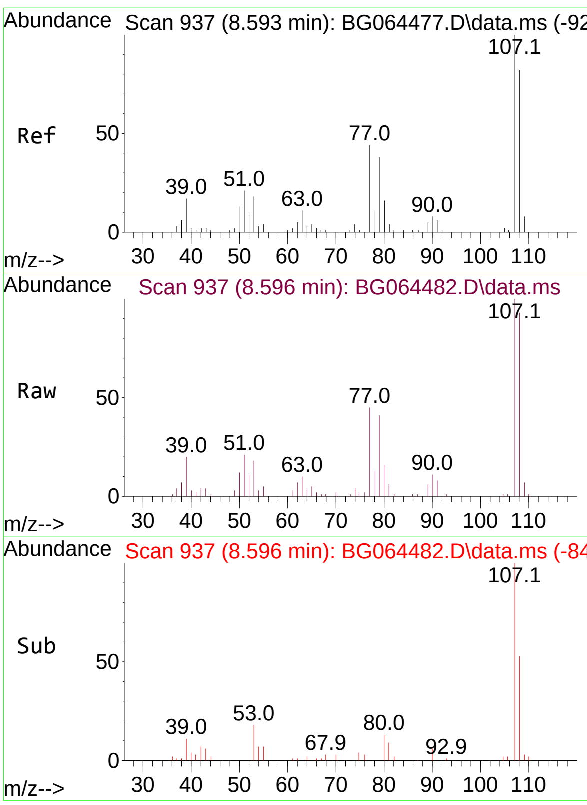
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

Tgt Ion: 70 Resp: 3048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 87.6 | 64.9 | 97.3 |
| 101 | 10.9 | 8.7 | 13.1 |
| 130 | 26.1 | 15.8 | 23.8# |

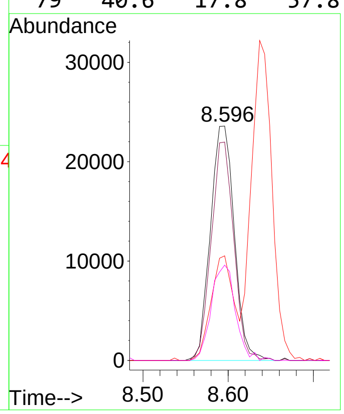



#20
3+4-Methylphenols
Concen: 38.893 ng
RT: 8.596 min Scan# 937
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:107 Resp: 46114

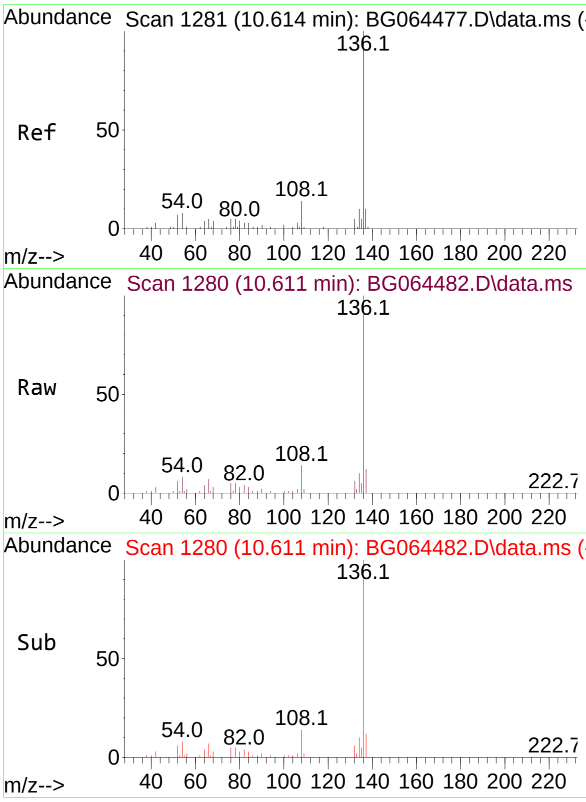
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 93.1 | 62.1 | 102.1 |
| 77 | 44.6 | 23.5 | 63.5 |
| 79 | 40.6 | 17.8 | 57.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

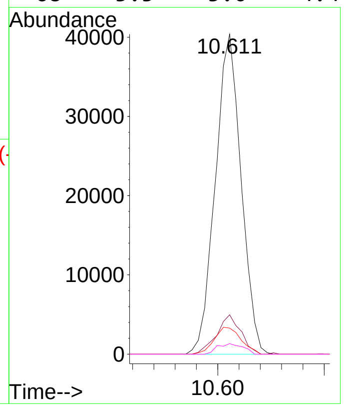
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

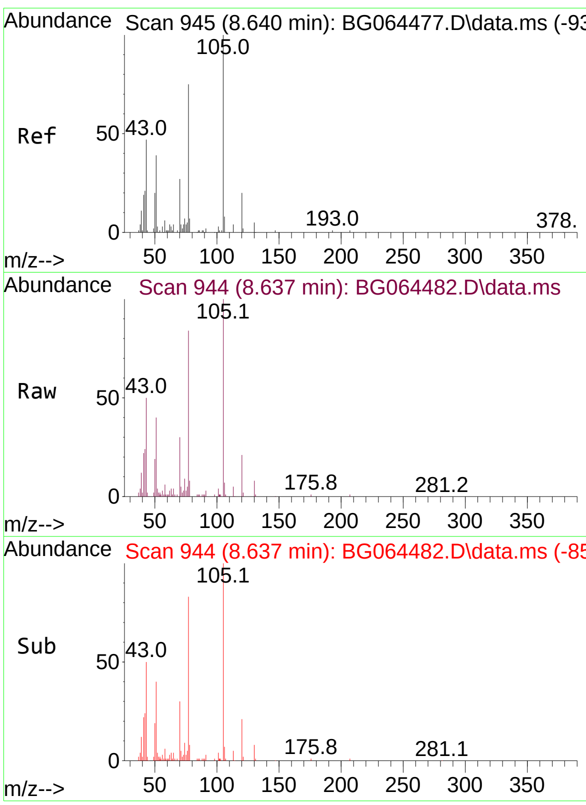



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.611 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:136 Resp: 6810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.3 | 8.3 | 12.5 |
| 54 | 8.1 | 6.2 | 9.4 |
| 68 | 3.3 | 3.0 | 4.4 |

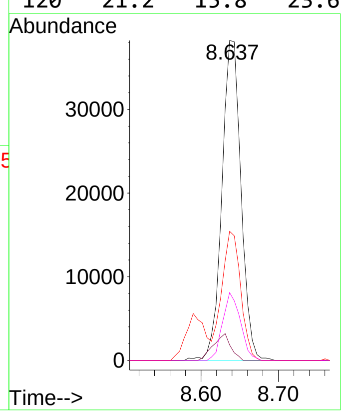


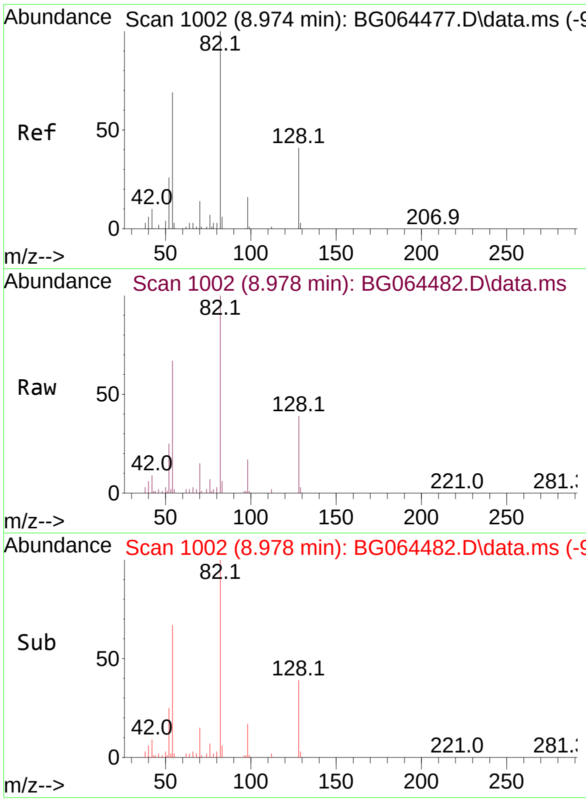




#22
Acetophenone
Concen: 39.906 ng
RT: 8.637 min Scan# 944
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:105 Resp: 65802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 4.8 | 2.8 | 4.2# |
| 51 | 40.3 | 33.0 | 49.4 |
| 120 | 21.2 | 15.8 | 23.6 |






#23
Nitrobenzene-d5
Concen: 72.999 ng
RT: 8.978 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

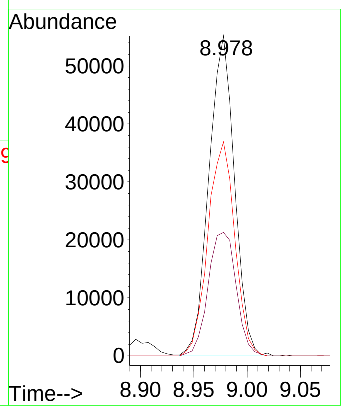
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

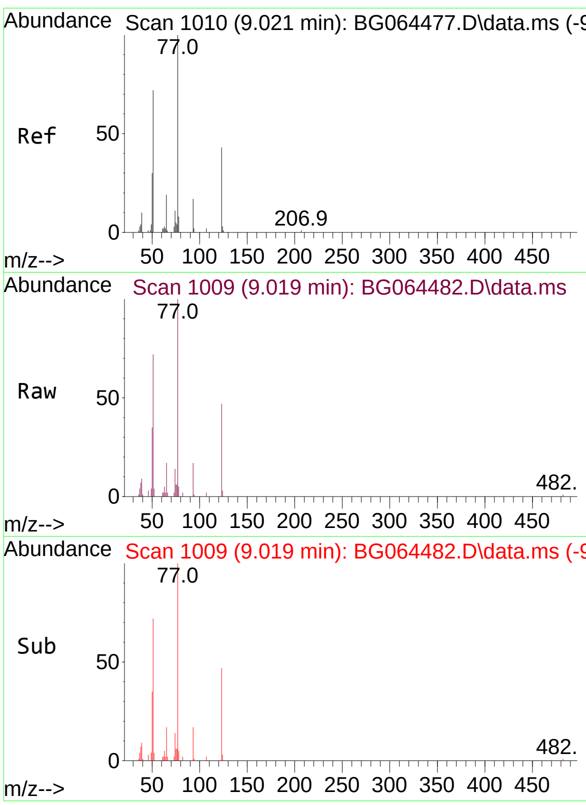
Tgt Ion: 82 Resp: 9245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.6 | 33.1 | 49.7 |
| 54 | 66.9 | 55.4 | 83.2 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

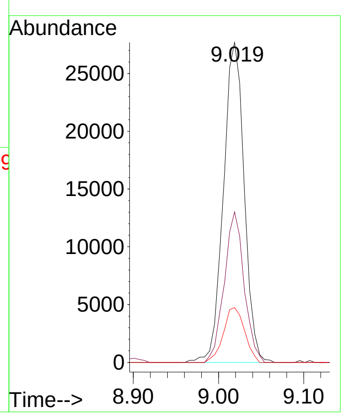



#24
Nitrobenzene
Concen: 37.170 ng
RT: 9.019 min Scan# 1009
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 77 Resp: 46946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 47.0 | 34.4 | 51.6 |
| 65 | 17.1 | 14.8 | 22.2 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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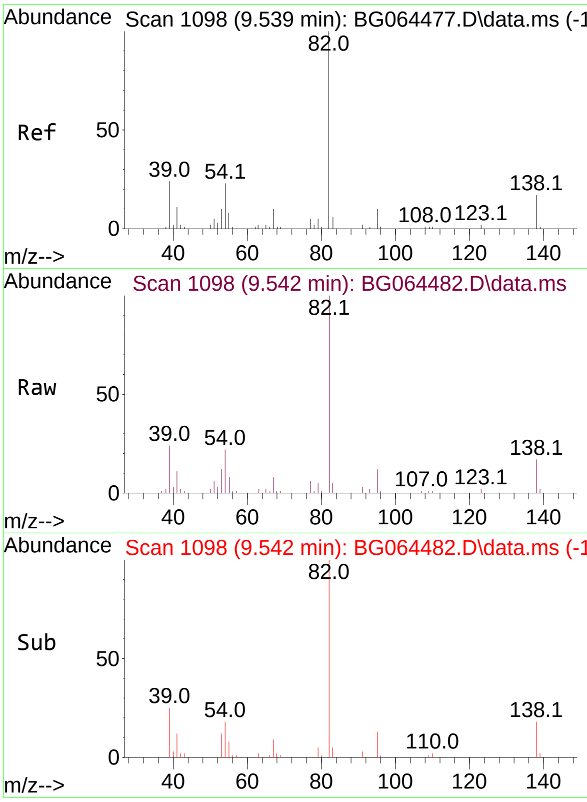
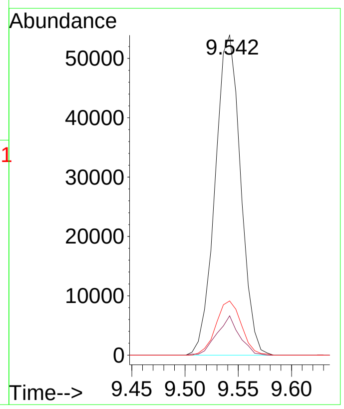
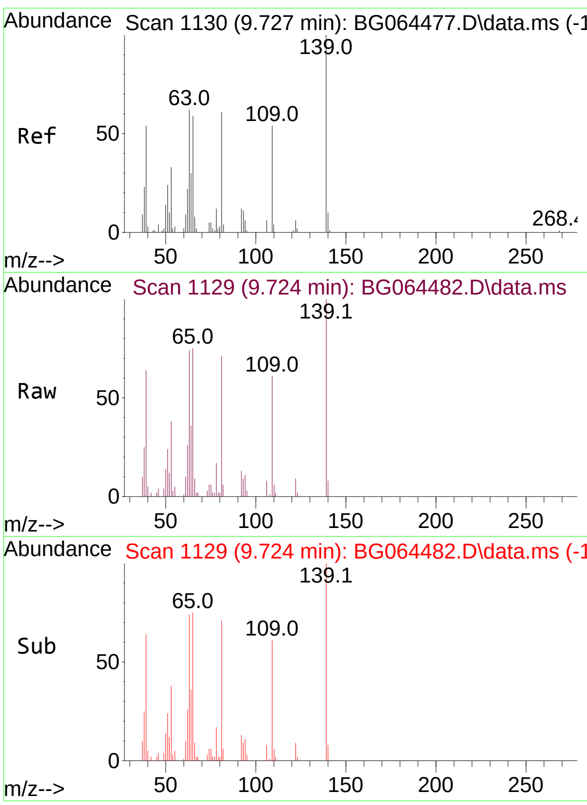



#25
Isophorone
Concen: 39.198 ng
RT: 9.542 min Scan# 1
Delta R.T. 0.012 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 82 Resp: 8993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 12.3 | 7.8 | 11.8# |
| 138 | 16.9 | 13.8 | 20.6 |

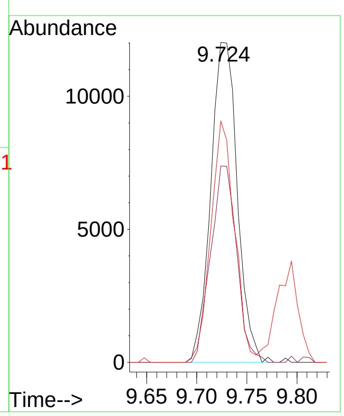


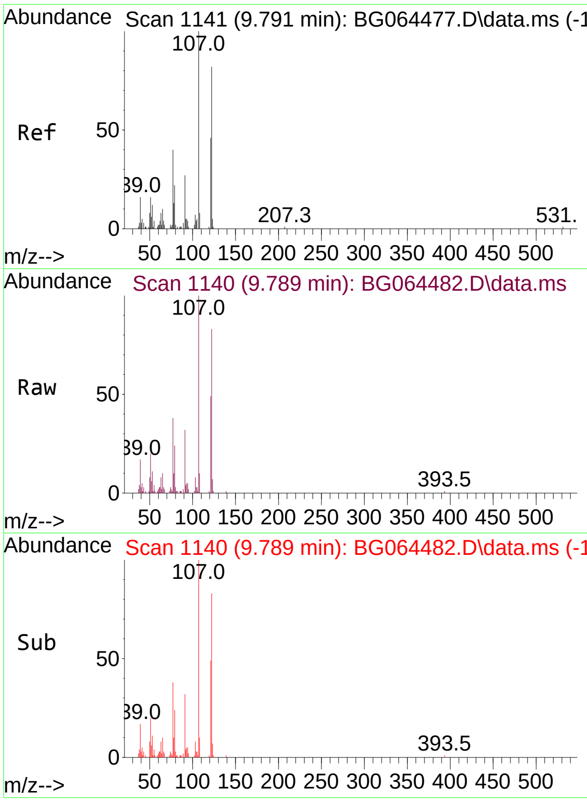




#26
2-Nitrophenol
Concen: 35.388 ng
RT: 9.724 min Scan# 1129
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:139 Resp: 22245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 61.4 | 43.0 | 64.6 |
| 65 | 75.4 | 47.4 | 71.2# |

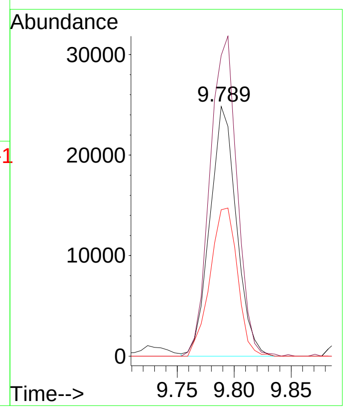





#27
2,4-Dimethylphenol
Concen: 41.959 ng
RT: 9.789 min Scan# 11
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:122 Resp: 4028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 120.4 | 98.3 | 147.5 |
| 121 | 58.6 | 44.7 | 67.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

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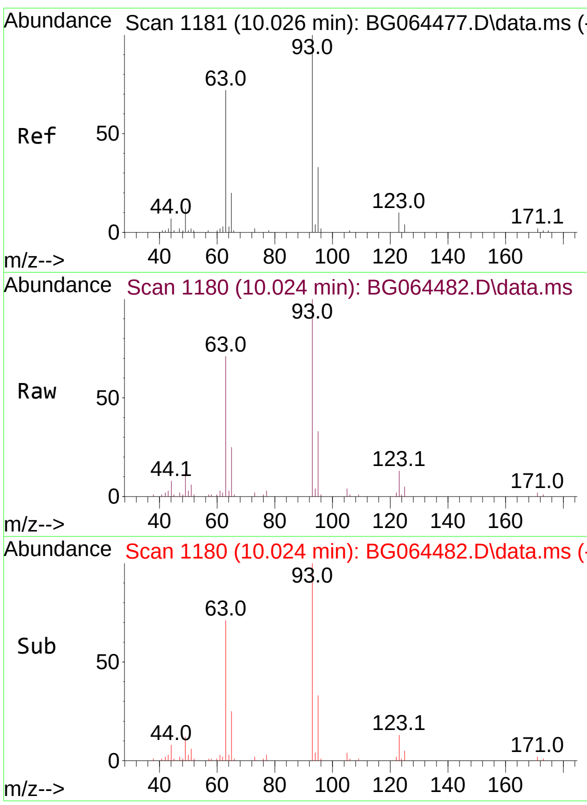
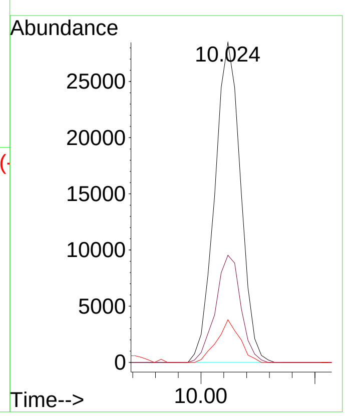


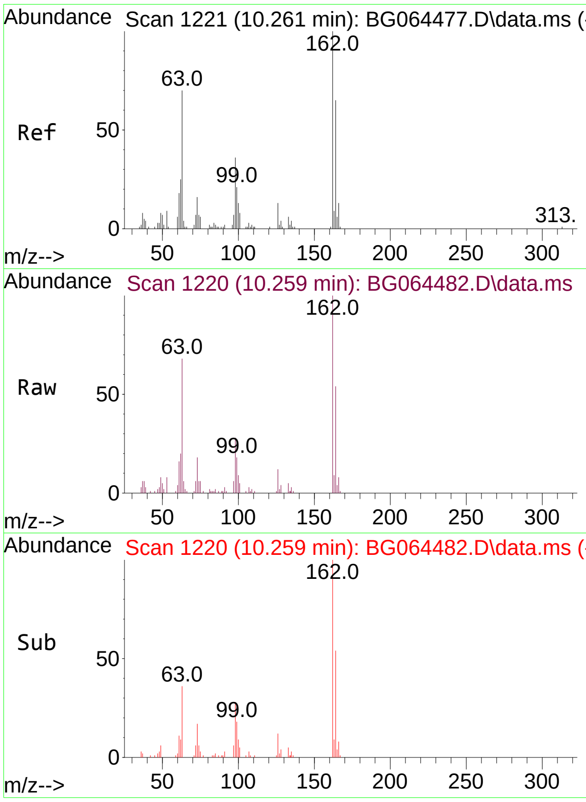

#28
bis(2-Chloroethoxy)methane
Concen: 38.540 ng
RT: 10.024 min Scan# 1180
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 93 Resp: 45075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.5 | 26.5 | 39.7 |
| 123 | 13.3 | 8.9 | 13.3 |



ICAL Form



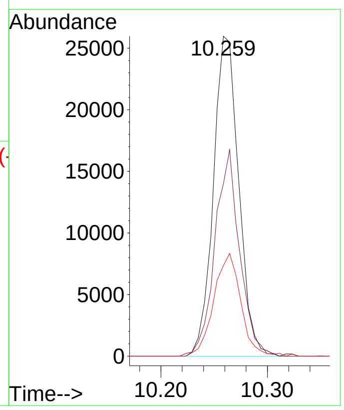

#29
2,4-Dichlorophenol
Concen: 38.857 ng
RT: 10.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

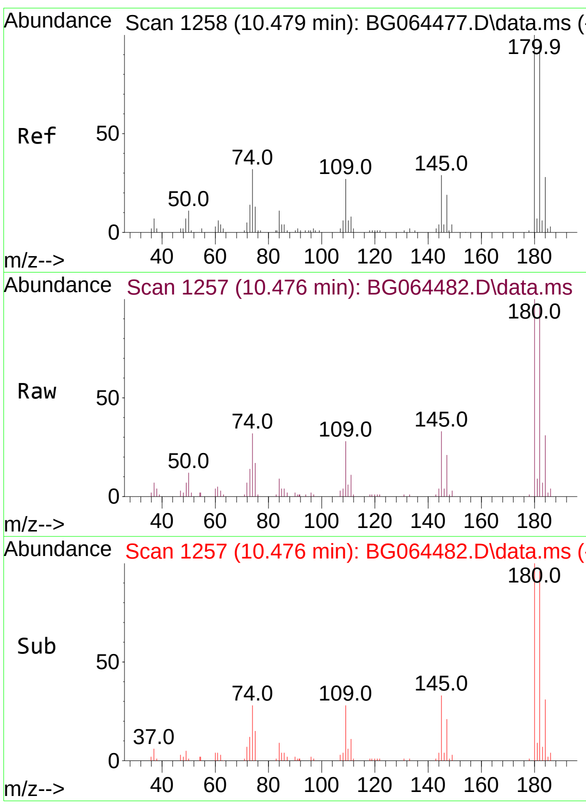
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Tgt Ion:162 Resp: 43141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 53.8 | 45.4 | 85.4 |
| 98 | 28.3 | 16.4 | 56.4 |

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

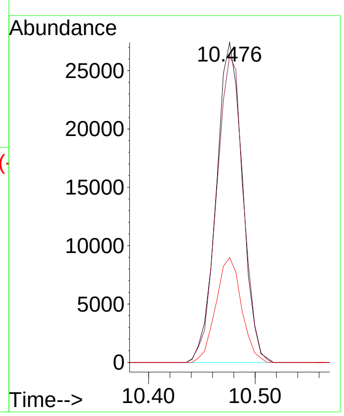


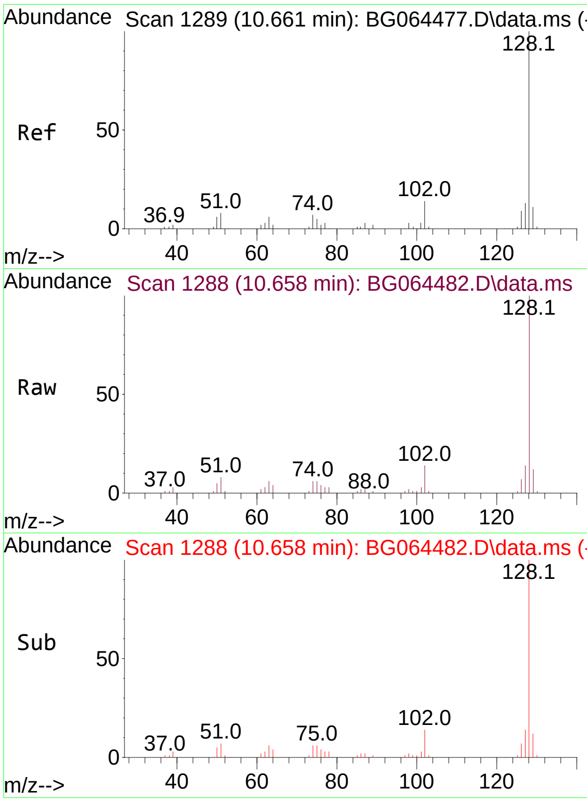




#30
1,2,4-Trichlorobenzene
Concen: 38.743 ng
RT: 10.476 min Scan# 1257
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:180 Resp: 46901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 75.4 | 113.2 |
| 145 | 32.7 | 23.2 | 34.8 |





#31
Naphthalene
Concen: 38.491 ng
RT: 10.658 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

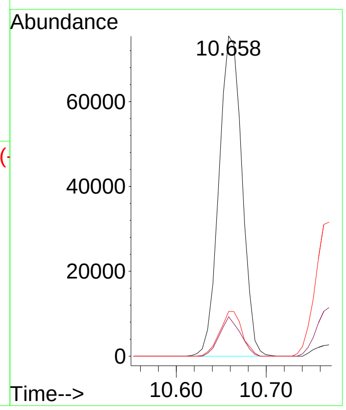
Instrument :
BNA_G
ClientSampleId :
ICVBG100225

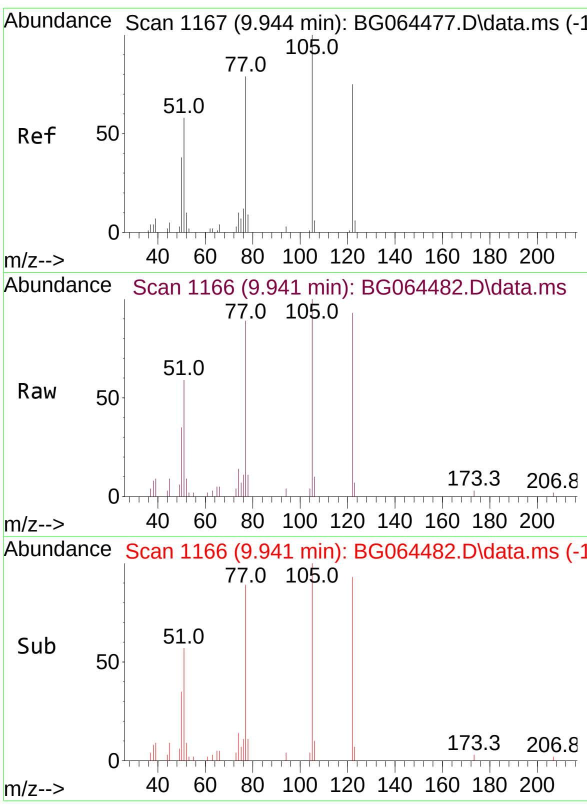
Tgt Ion:128 Resp: 134984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.3 | 8.7 | 13.1 |
| 127 | 14.0 | 10.2 | 15.2 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

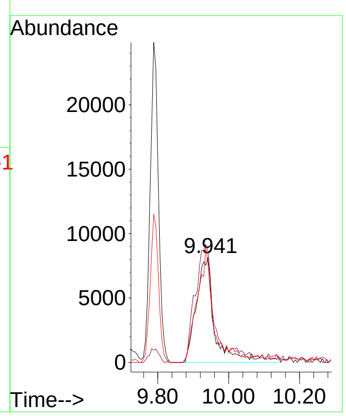




#32
Benzoic acid
Concen: 40.223 ng m
RT: 9.941 min Scan# 1166
Delta R.T. 0.053 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

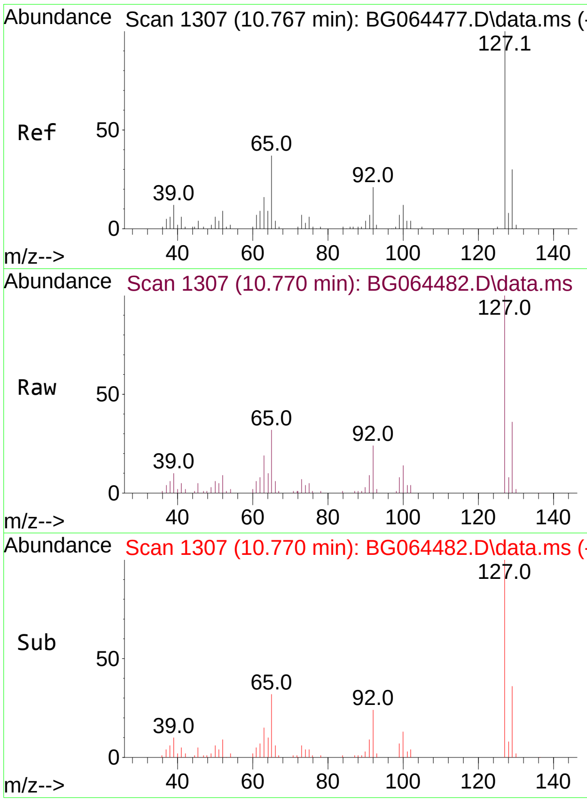
Tgt Ion:122 Resp: 29650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 107.2 | 113.9 | 153.9# |
| 77 | 95.1 | 86.1 | 126.1 |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

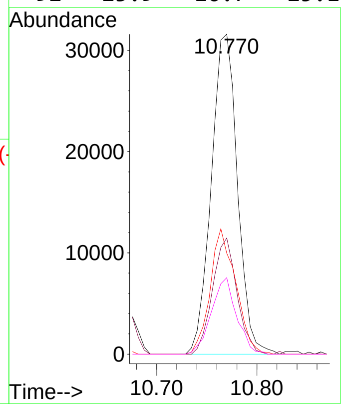
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

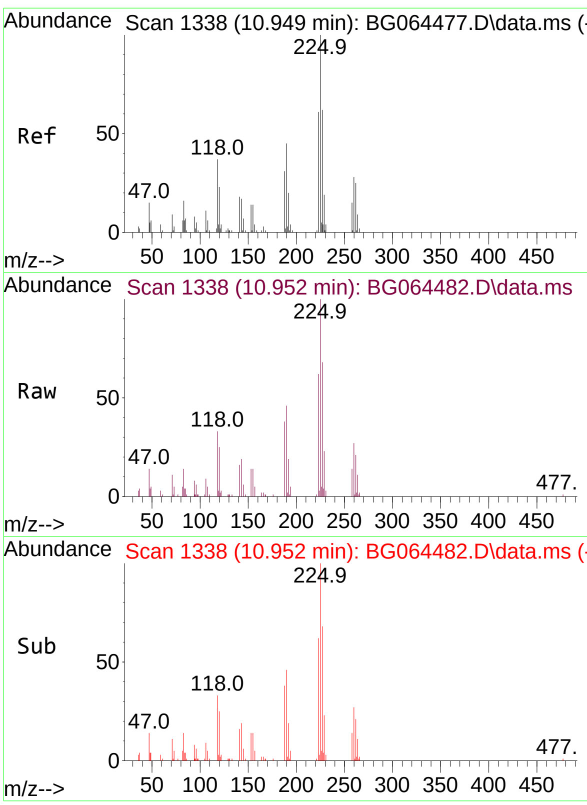



#33
4-Chloroaniline
Concen: 42.784 ng
RT: 10.770 min Scan# 13
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:127 Resp: 5757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 36.3 | 24.2 | 36.4 |
| 65 | 31.5 | 29.6 | 44.4 |
| 92 | 23.9 | 16.7 | 25.1 |

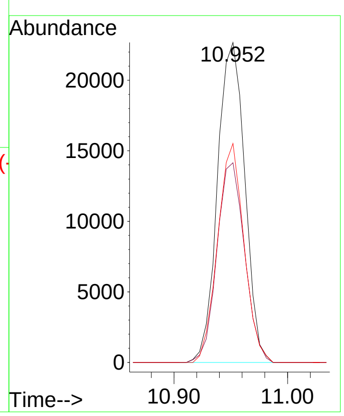


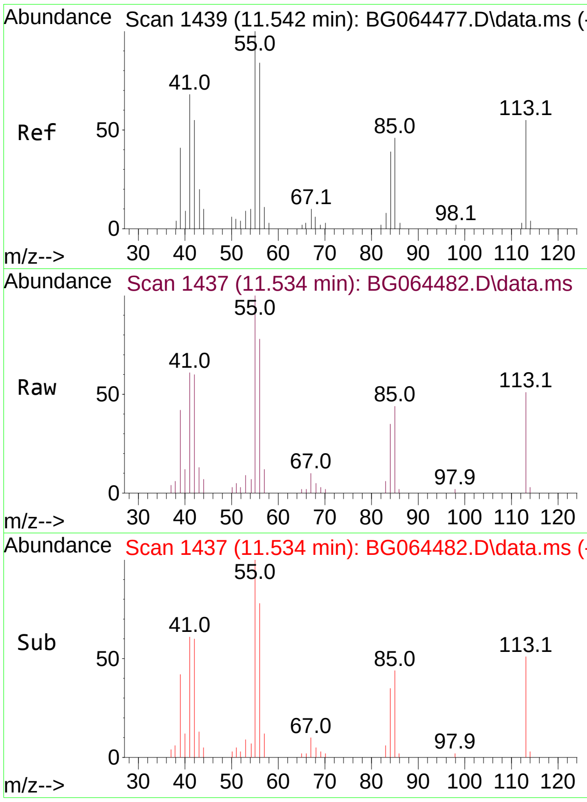




#34
Hexachlorobutadiene
Concen: 36.587 ng
RT: 10.952 min Scan# 1338
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:225 Resp: 37931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.8 | 49.0 | 73.6 |
| 227 | 68.4 | 49.9 | 74.9 |






#35
Caprolactam
Concen:   38.812 ng
RT:  11.534 min  Scan# 14
Delta R.T.  0.023 min
Lab File:   BG064482.D
Acq:  2 Oct 2025  18:09

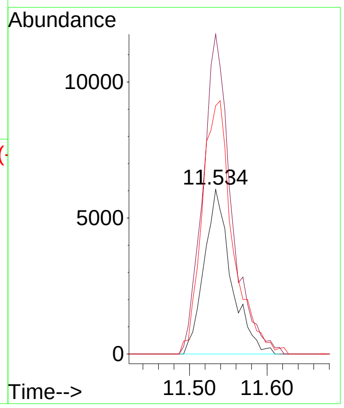
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

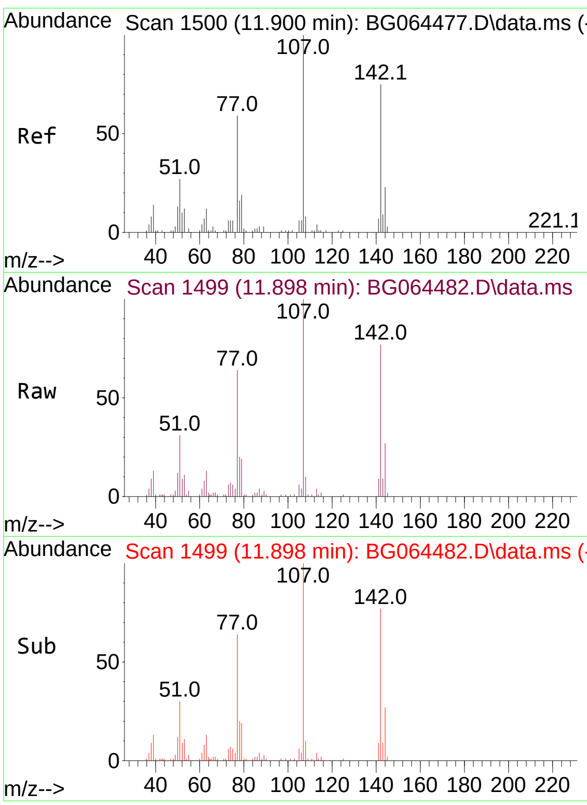
Tgt Ion:113 Resp:   14752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 194.4 | 162.0 | 202.0 |
| 56 | 150.9 | 134.6 | 174.6 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli    10/03/2025
Supervised By :Jagrut Upadhyay    10/03/2025

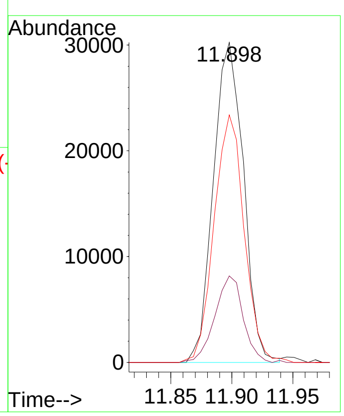



#36
4-Chloro-3-methylphenol
Concen:   38.389 ng
RT:  11.898 min  Scan# 1499
Delta R.T.  0.006 min
Lab File:   BG064482.D
Acq:  2 Oct 2025  18:09

Tgt Ion:107 Resp:   51832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 27.0 | 18.7 | 28.1 |
| 142 | 77.3 | 60.2 | 90.2 |



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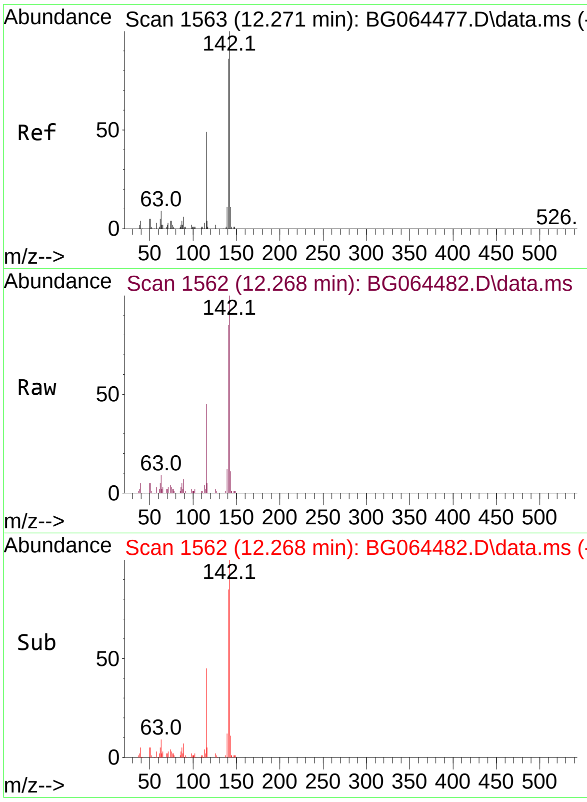


#37
2-Methylnaphthalene
Concen: 35.191 ng
RT: 12.268 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:142 Resp: 9473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.1 | 68.7 | 103.1 |
| 115 | 44.9 | 39.3 | 58.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
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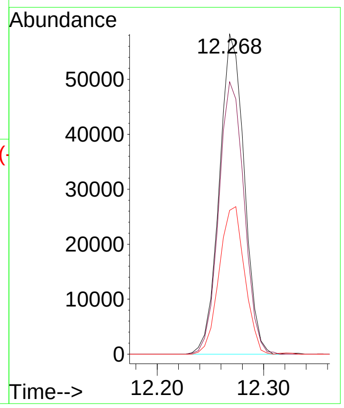
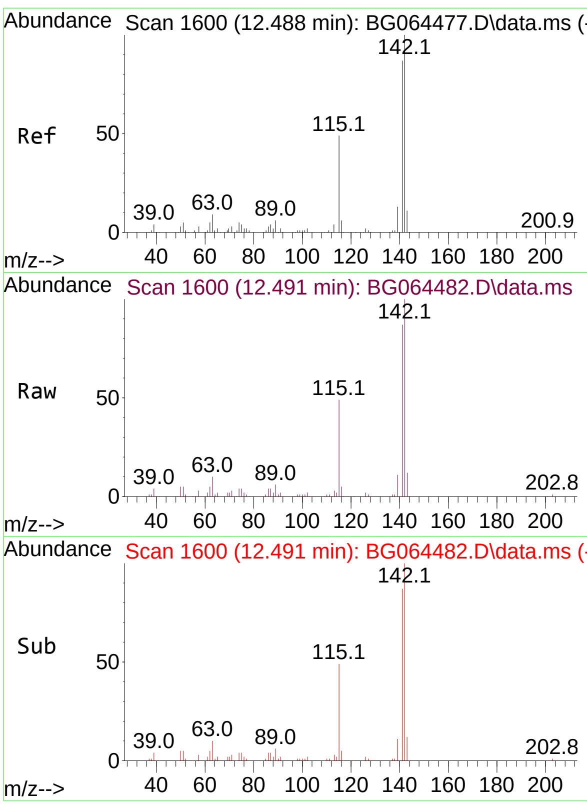
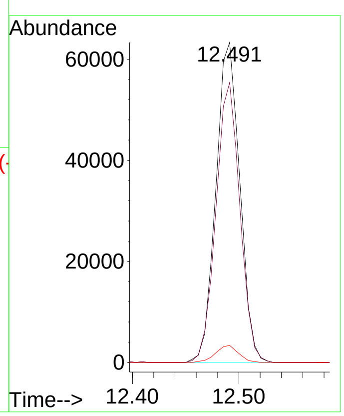


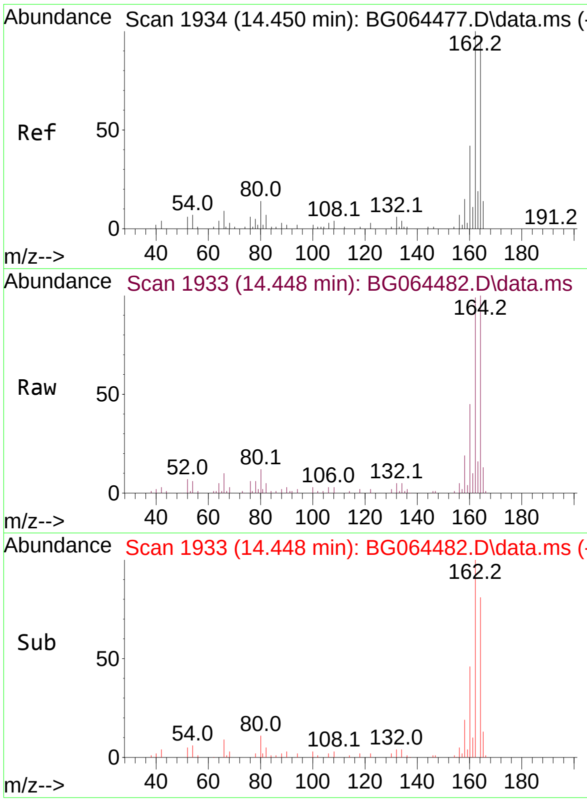




#38
1-Methylnaphthalene
Concen: 36.933 ng
RT: 12.491 min Scan# 1600
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:142 Resp: 99137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.4 | 69.8 | 104.8 |
| 116 | 5.3 | 4.6 | 6.8 |






#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.448 min Scan# 19
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Tgt Ion:164 Resp: 53704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.6 | 82.2 | 123.2 |
| 160 | 45.3 | 34.3 | 51.5 |

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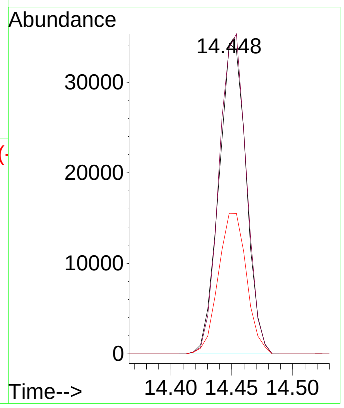
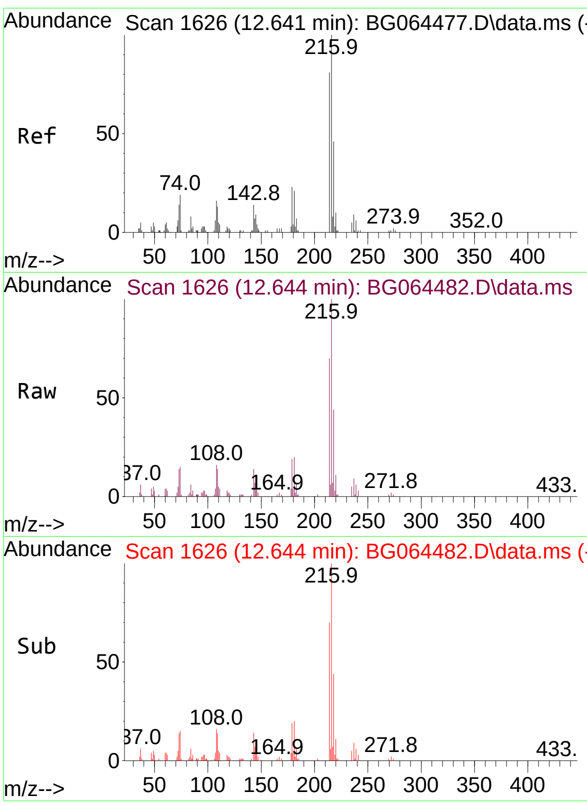
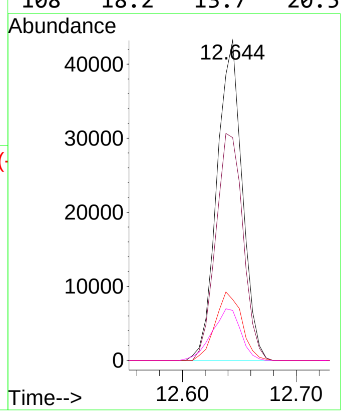


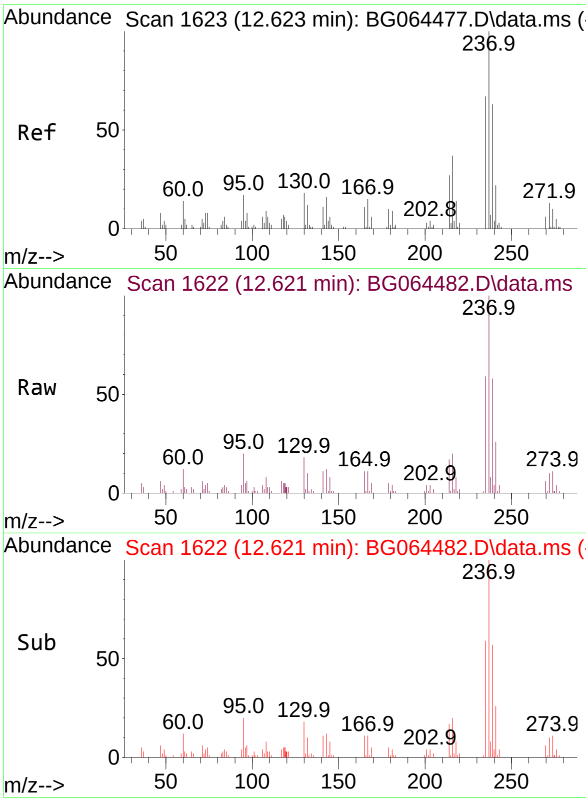




#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.511 ng
RT: 12.644 min Scan# 1626
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:216 Resp: 66779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 76.2 | 62.5 | 93.7 |
| 179 | 22.3 | 17.0 | 25.6 |
| 108 | 18.2 | 13.7 | 20.5 |






#41
Hexachlorocyclopentadiene
Concen: 50.483 ng
RT: 12.621 min Scan# 16
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:237 Resp: 4579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 58.9 | 46.9 | 86.9 |
| 272 | 10.5 | 0.0 | 32.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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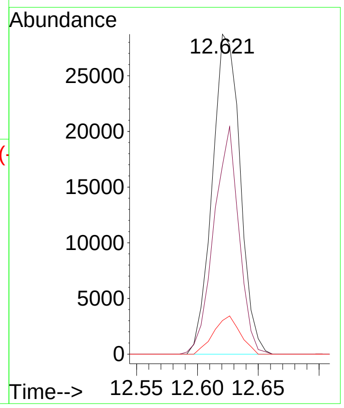
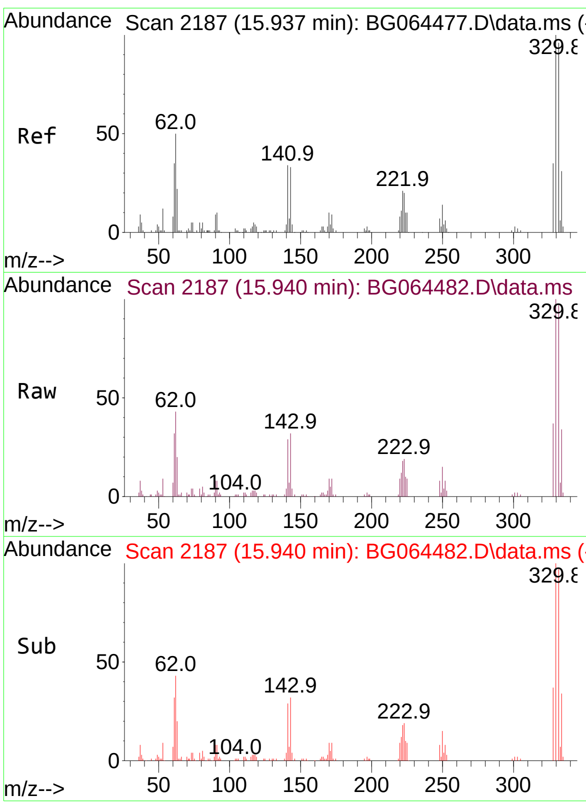
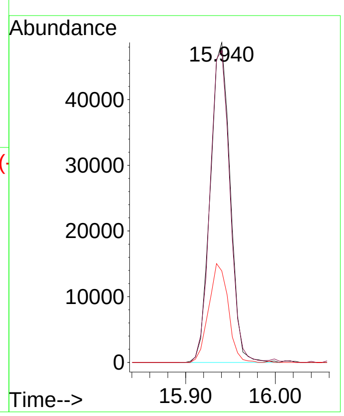


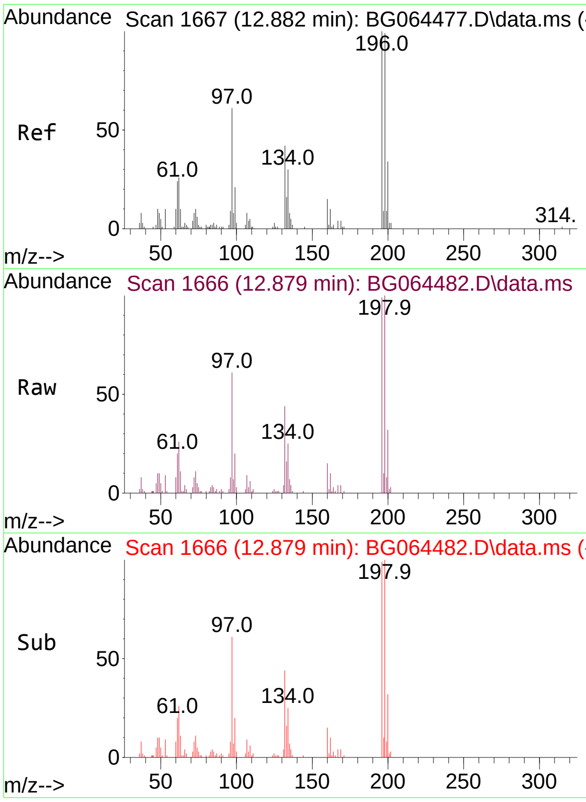




#42
2,4,6-Tribromophenol
Concen: 76.705 ng
RT: 15.940 min Scan# 2187
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:330 Resp: 74669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.8 | 77.4 | 116.0 |
| 141 | 30.4 | 25.8 | 38.6 |

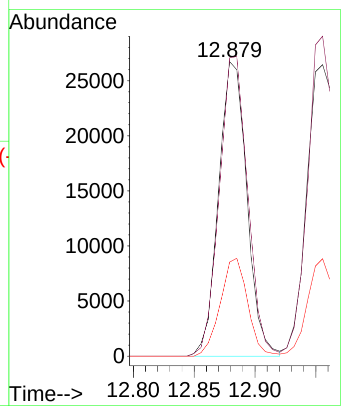





#43
2,4,6-Trichlorophenol
Concen: 39.030 ng
RT: 12.879 min Scan# 16
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:196 Resp: 4326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.3 | 79.3 | 118.9 |
| 200 | 31.9 | 27.4 | 41.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
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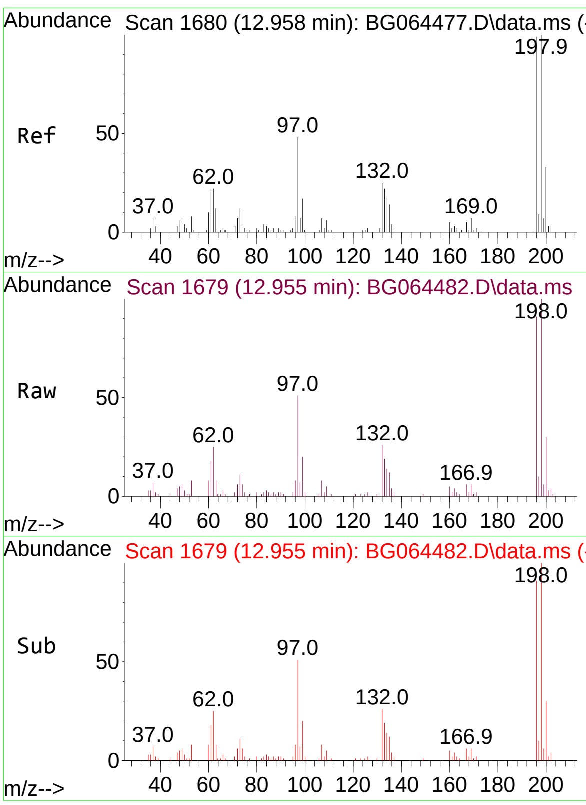
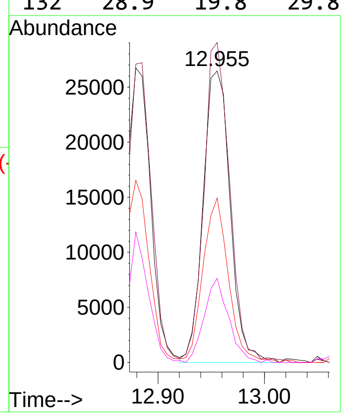
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#44
2,4,5-Trichlorophenol
Concen: 37.827 ng
RT: 12.955 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:196 Resp: 46812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 109.8 | 80.3 | 120.5 |
| 97 | 56.4 | 39.4 | 59.0 |
| 132 | 28.9 | 19.8 | 29.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
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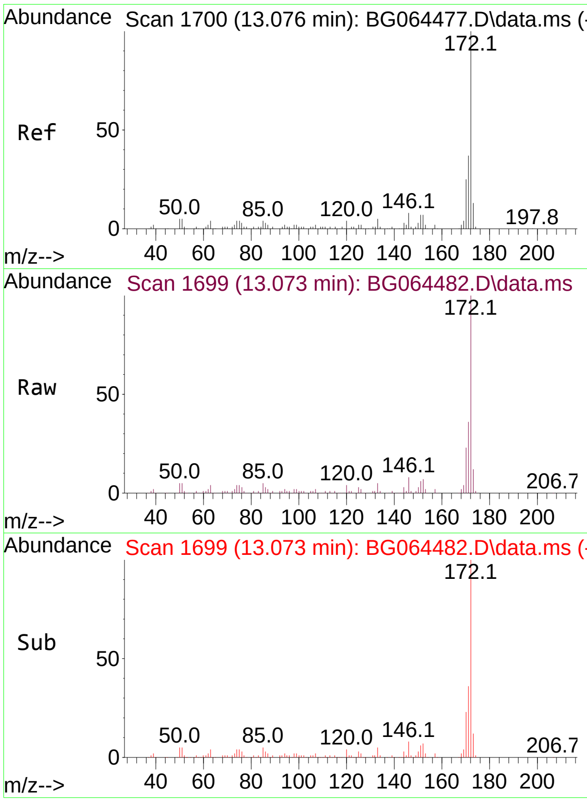
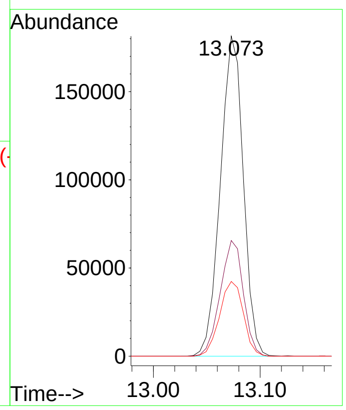
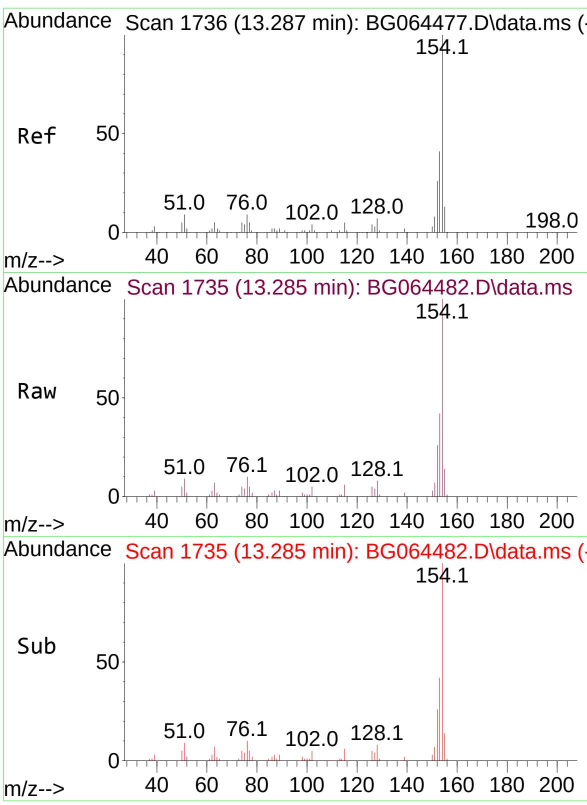



#45
2-Fluorobiphenyl
Concen: 74.539 ng
RT: 13.073 min Scan# 16
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:172 Resp: 27157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.6 | 44.4 |
| 170 | 23.4 | 20.2 | 30.2 |

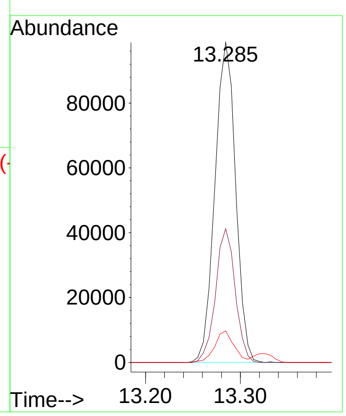



#46
1,1'-Biphenyl
Concen: 38.735 ng
RT: 13.285 min Scan# 1735
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:154 Resp: 149616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.8 | 20.7 | 60.7 |
| 76 | 9.8 | 0.0 | 29.3 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
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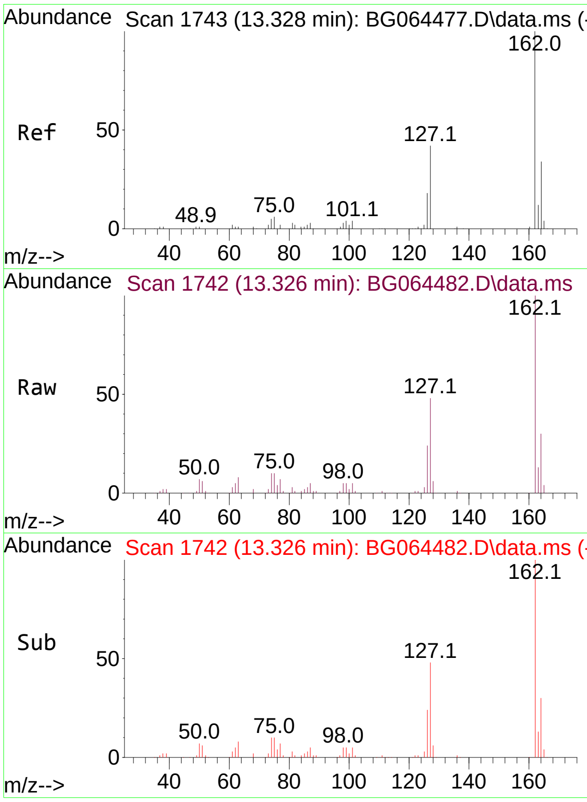
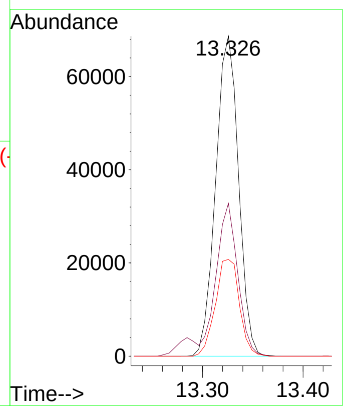
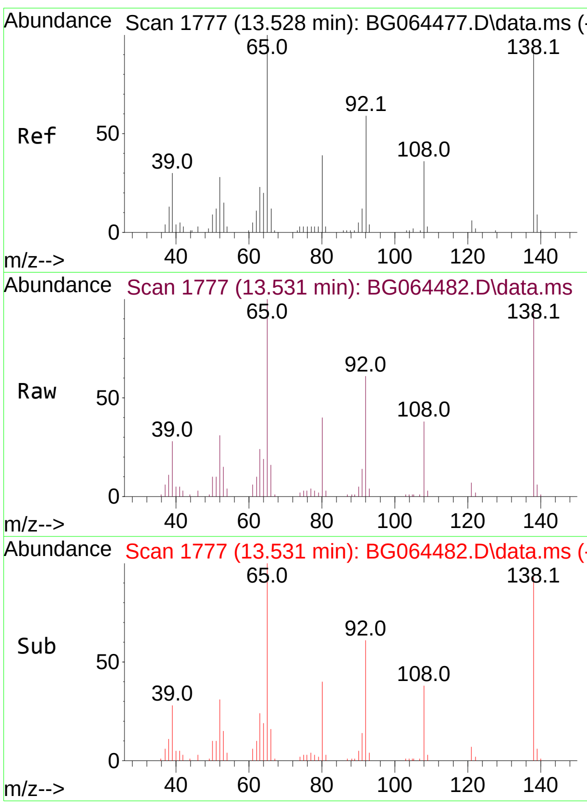



#47
2-Chloronaphthalene
Concen: 37.716 ng
RT: 13.326 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:162 Resp: 10876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 47.7 | 35.8 | 53.8 |
| 164 | 30.2 | 27.2 | 40.8 |

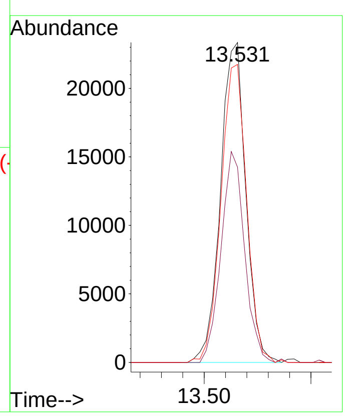



#48
2-Nitroaniline
Concen: 39.151 ng
RT: 13.531 min Scan# 1777
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 65 Resp: 38535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 61.0 | 47.0 | 70.6 |
| 138 | 93.2 | 73.5 | 110.3 |



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
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Reviewed By :Rahul Chavli 10/03/2025
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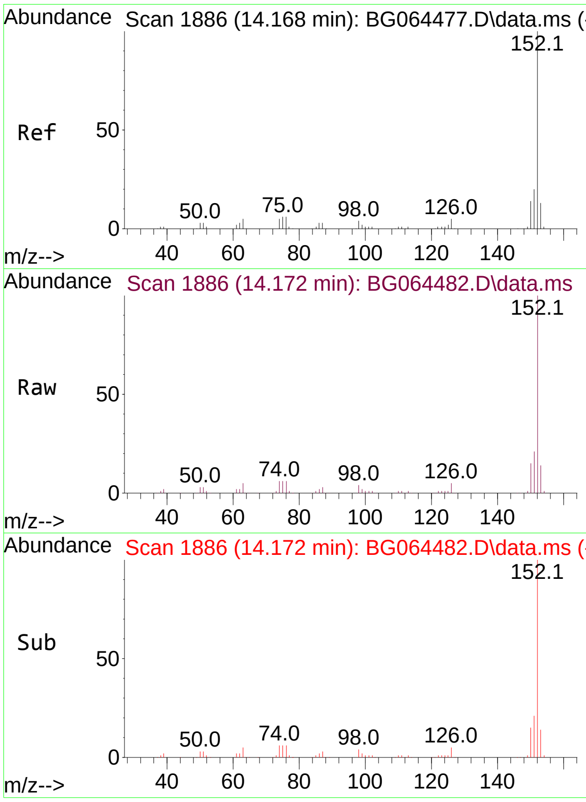
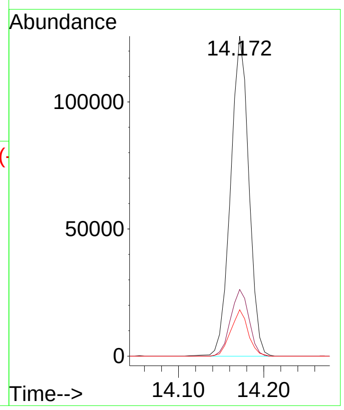
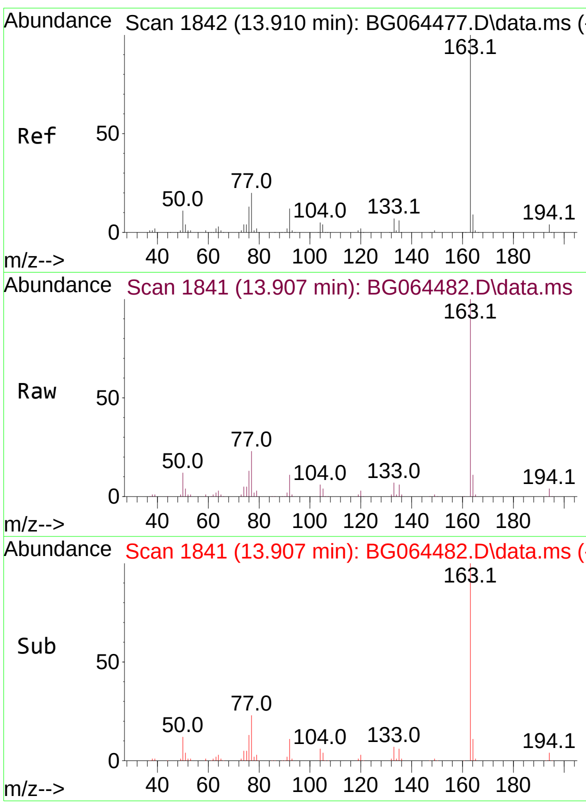



#49
Acenaphthylene
Concen: 43.842 ng
RT: 14.172 min Scan# 18
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:152 Resp: 18768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 15.8 | 23.6 |
| 153 | 14.5 | 10.6 | 15.8 |

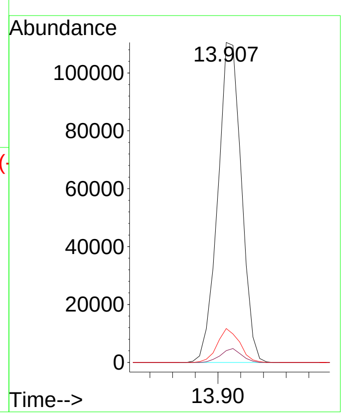



#50
Dimethylphthalate
Concen: 37.903 ng
RT: 13.907 min Scan# 1841
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:163 Resp: 159424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.7 | 2.9 | 4.3 |
| 164 | 10.6 | 7.4 | 11.0 |



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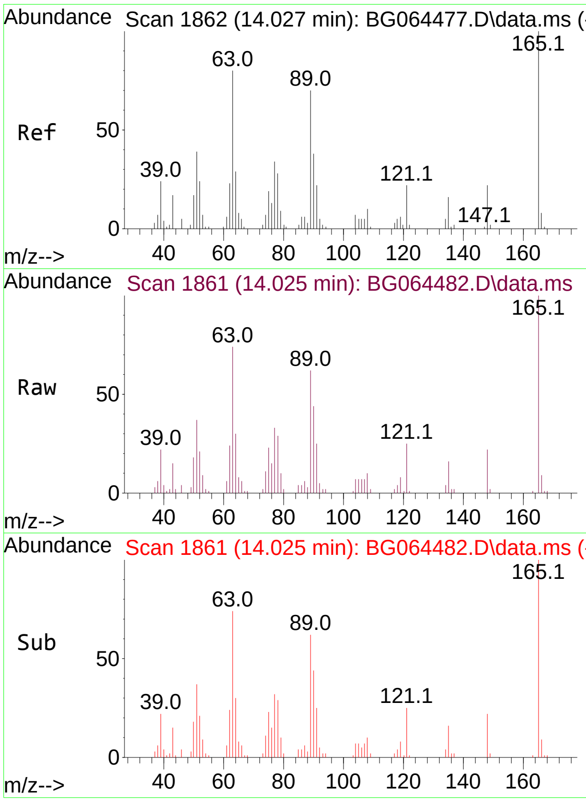


#51
2,6-Dinitrotoluene
Concen: 38.742 ng
RT: 14.025 min Scan# 18
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:165 Resp: 33945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 74.3 | 63.9 | 95.9 |
| 89 | 62.3 | 56.1 | 84.1 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

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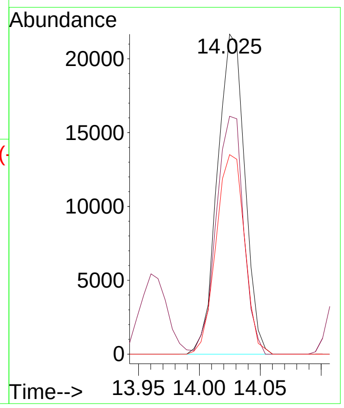
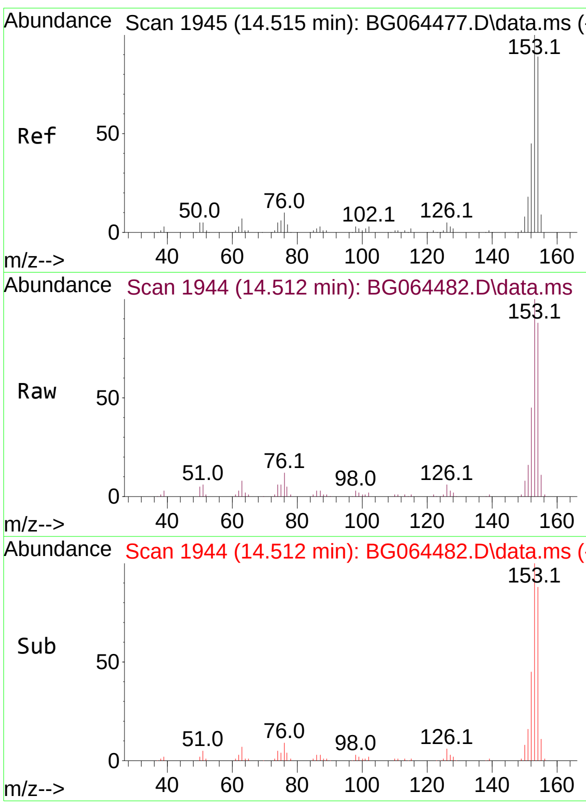
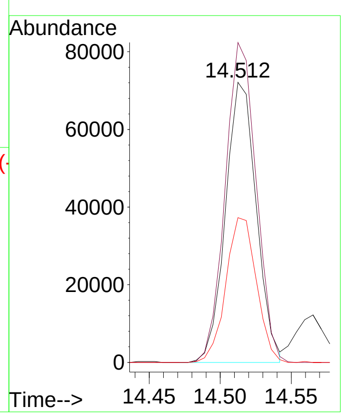


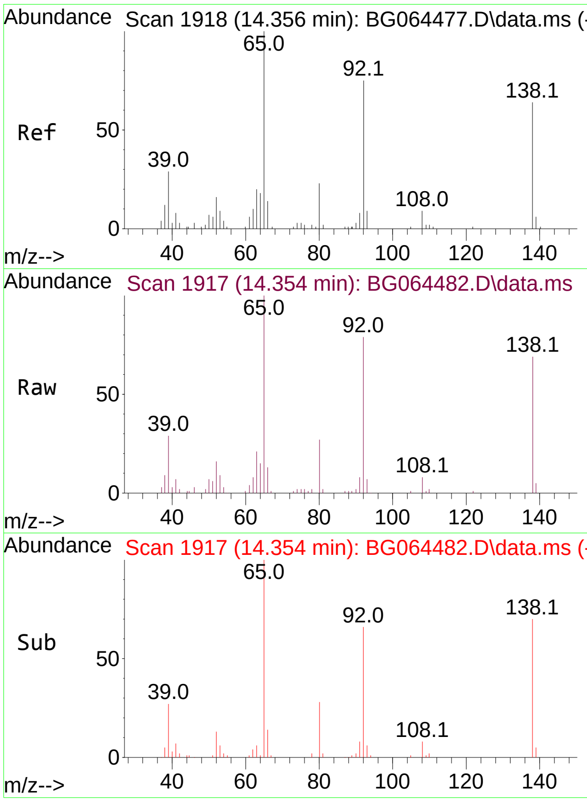




#52
Acenaphthene
Concen: 36.666 ng
RT: 14.512 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:154 Resp: 109054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.2 | 90.2 | 135.4 |
| 152 | 51.7 | 40.2 | 60.4 |





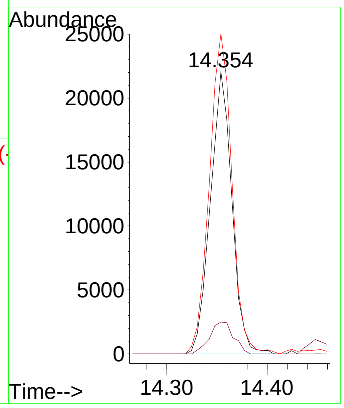

#53
3-Nitroaniline
Concen:   40.727 ng
RT:  14.354 min   Scan# 19
Delta R.T.   0.006 min
Lab File:    BG064482.D
Acq:  2 Oct 2025   18:09

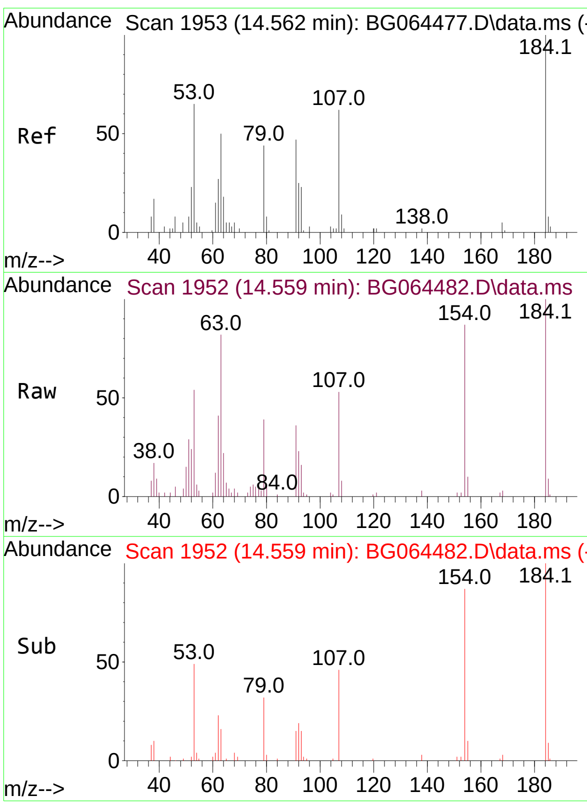
Tgt Ion:138 Resp:   3291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.2 | 10.6 | 15.8 |
| 92 | 113.5 | 93.2 | 139.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli   10/03/2025
Supervised By :Jagrut Upadhyay   10/03/2025

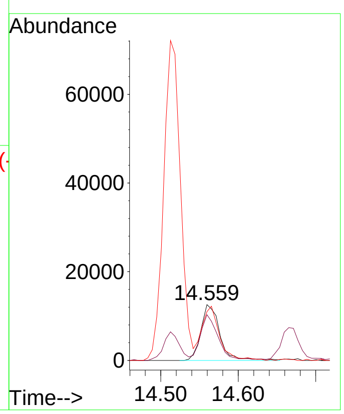



#54
2,4-Dinitrophenol
Concen:   33.540 ng
RT:  14.559 min   Scan# 1952
Delta R.T.   -0.006 min
Lab File:    BG064482.D
Acq:  2 Oct 2025   18:09

Tgt Ion:184 Resp:   21309

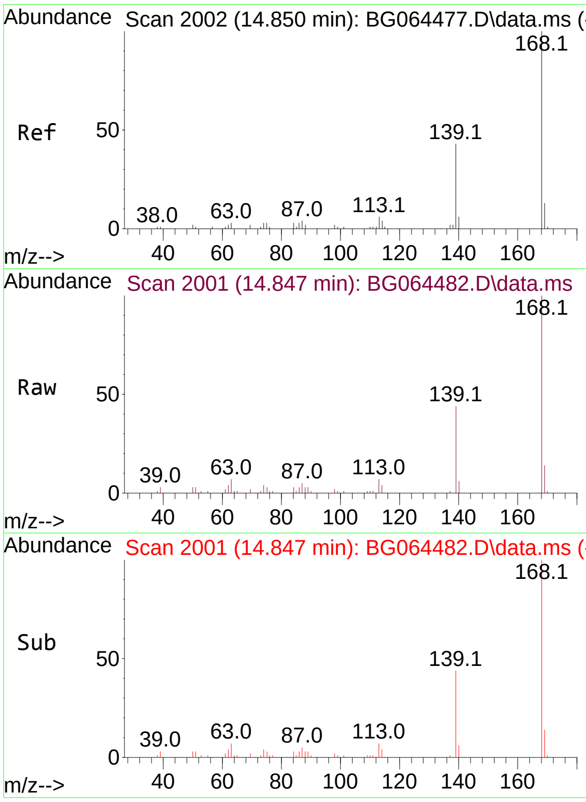
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 82.0 | 69.0 | 103.4 |
| 154 | 87.3 | 95.6 | 143.4# |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**

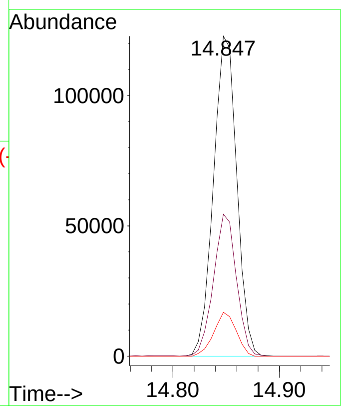
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

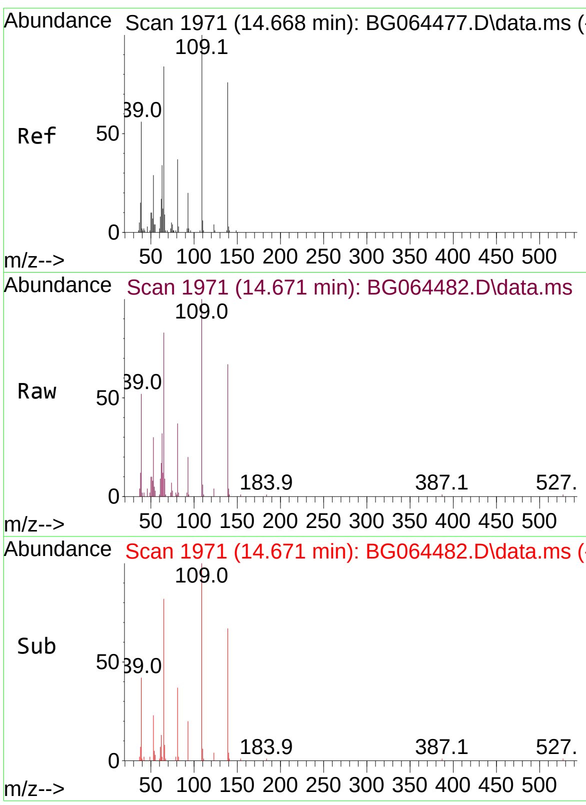



#55
Dibenzofuran
Concen: 38.141 ng
RT: 14.847 min Scan# 20
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:168 Resp: 187307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 44.3 | 34.0 | 51.0 |
| 169 | 13.7 | 10.2 | 15.2 |

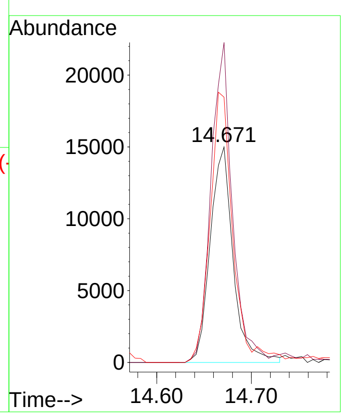


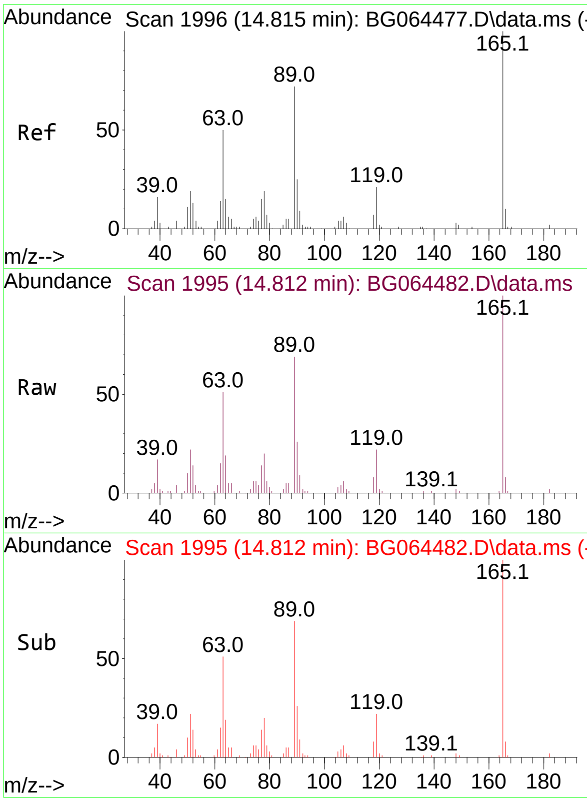




#56
4-Nitrophenol
Concen: 39.712 ng
RT: 14.671 min Scan# 1971
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:139 Resp: 25265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 148.6 | 111.8 | 151.8 |
| 65 | 123.1 | 91.1 | 131.1 |

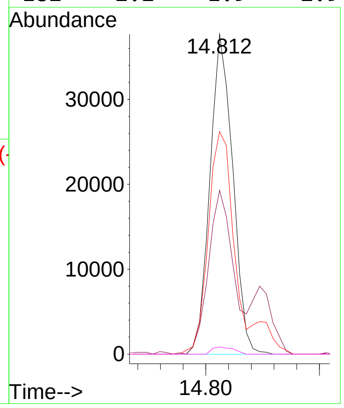





#57
2,4-Dinitrotoluene
Concen: 39.388 ng
RT: 14.812 min Scan# 19
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:165 Resp: 52757

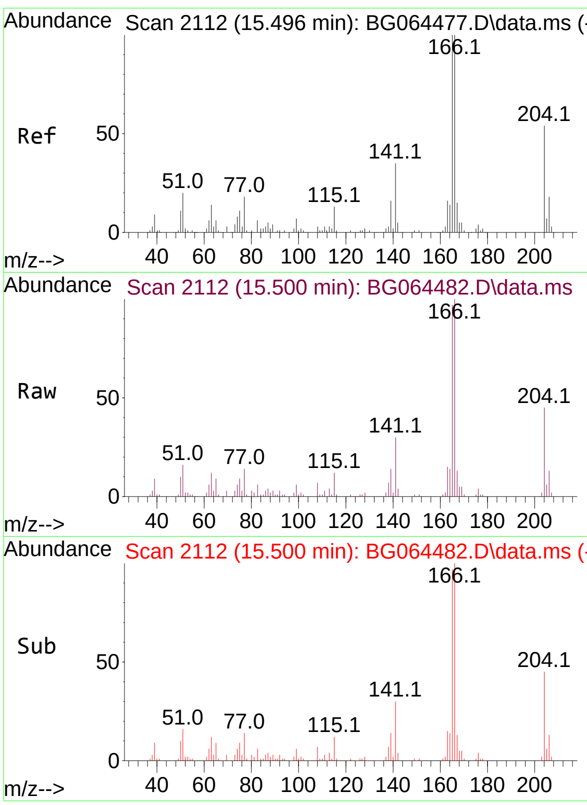
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 51.2 | 40.4 | 60.6 |
| 89 | 69.5 | 57.3 | 85.9 |
| 182 | 2.2 | 1.9 | 2.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

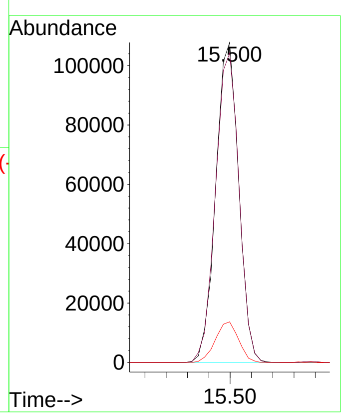
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



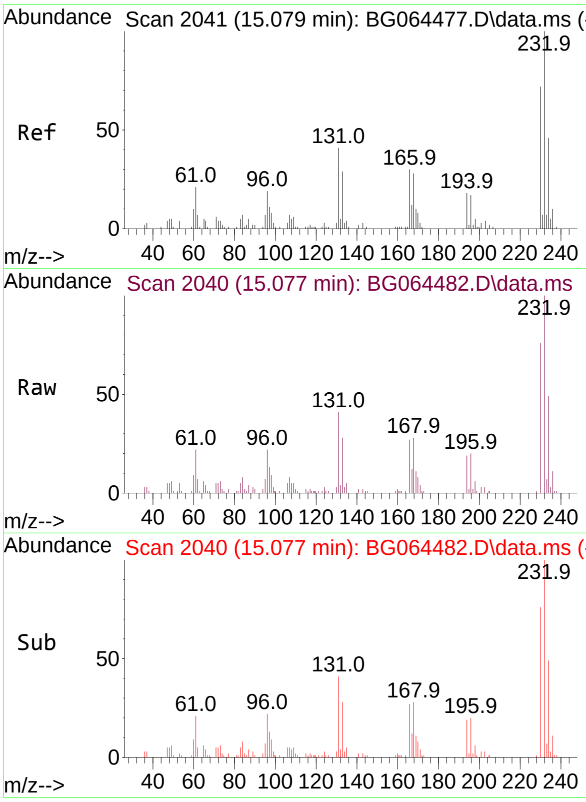

#58
Fluorene
Concen: 39.456 ng
RT: 15.500 min Scan# 2112
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:166 Resp: 161086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.6 | 79.8 | 119.6 |
| 167 | 12.7 | 11.7 | 17.5 |



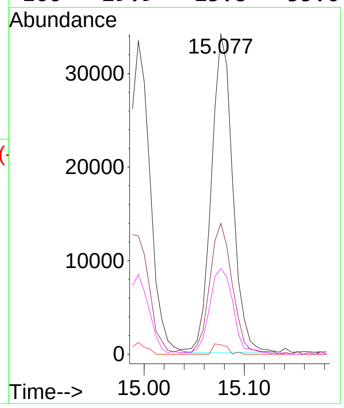
ICAL Form




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.021 ng
RT: 15.077 min Scan# 20
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:232 Resp: 50545

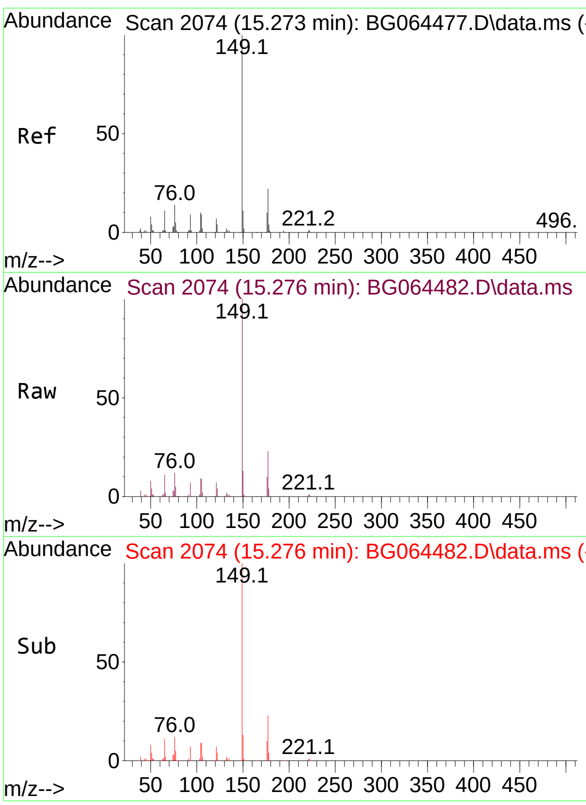
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 43.8 | 35.0 | 52.4 |
| 130 | 2.2 | 2.0 | 3.0 |
| 166 | 29.9 | 23.8 | 35.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

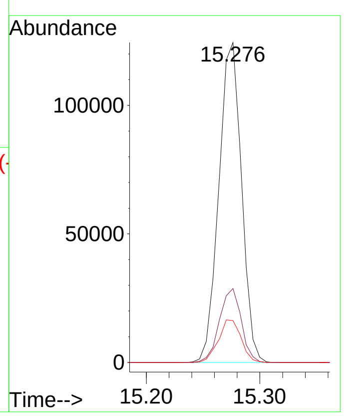
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



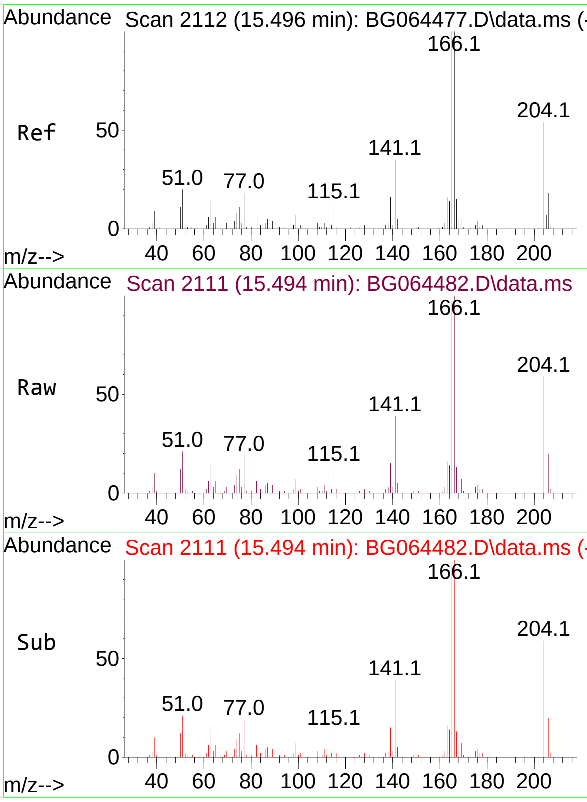

#60
Diethylphthalate
Concen: 38.317 ng
RT: 15.276 min Scan# 2074
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:149 Resp: 172891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.1 | 17.4 | 26.0 |
| 150 | 13.1 | 9.1 | 13.7 |



ICAL Form



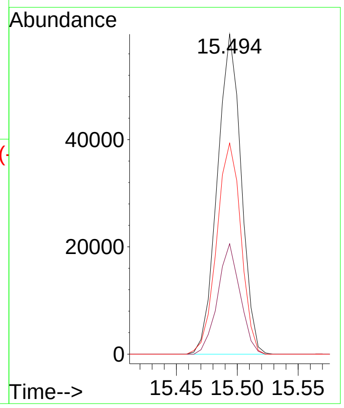

#61
4-Chlorophenyl-phenylether
Concen: 36.432 ng
RT: 15.494 min Scan# 21
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

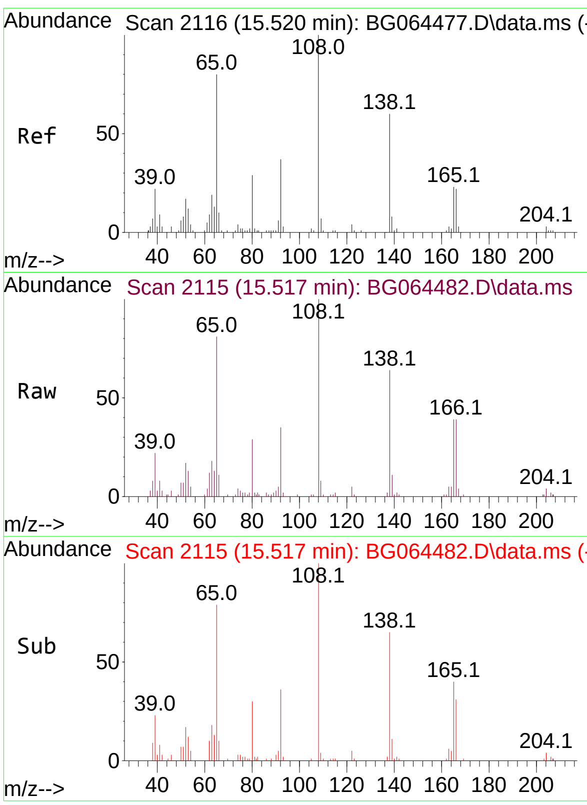
Tgt Ion:204 Resp: 8120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 34.5 | 27.1 | 40.7 |
| 141 | 65.9 | 51.5 | 77.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

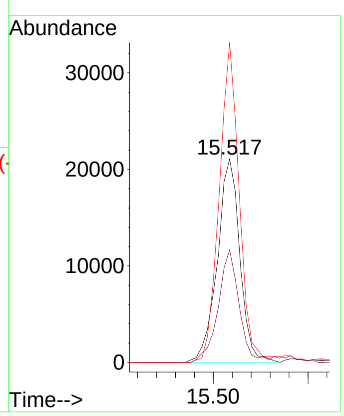


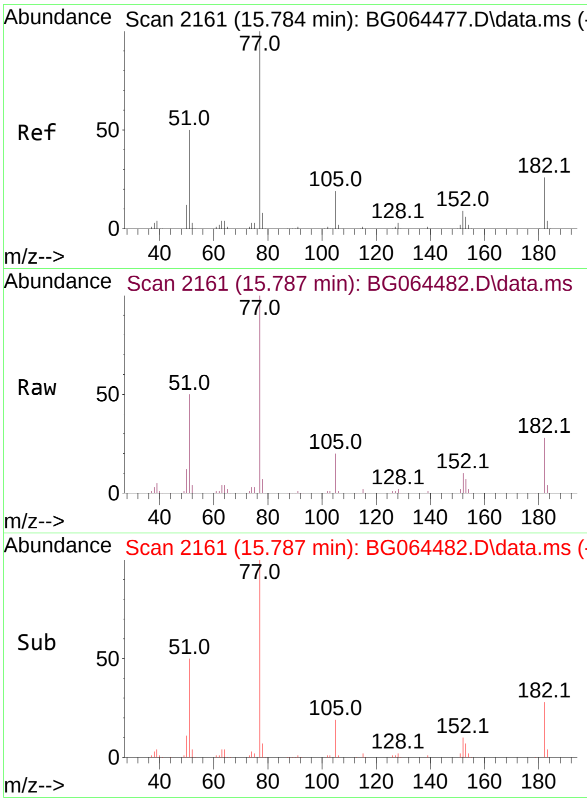

#62
4-Nitroaniline
Concen: 41.435 ng
RT: 15.517 min Scan# 2115
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:138 Resp: 34897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.3 | 42.3 | 82.3 |
| 108 | 157.4 | 147.7 | 187.7 |



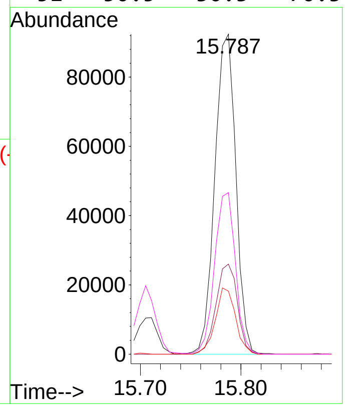
ICAL Form




#63
Azobenzene
Concen: 38.553 ng
RT: 15.787 min Scan# 21
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion: 77 Resp: 134722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 28.1 | 6.3 | 46.3 |
| 105 | 19.7 | 0.0 | 38.7 |
| 51 | 50.5 | 30.3 | 70.3 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
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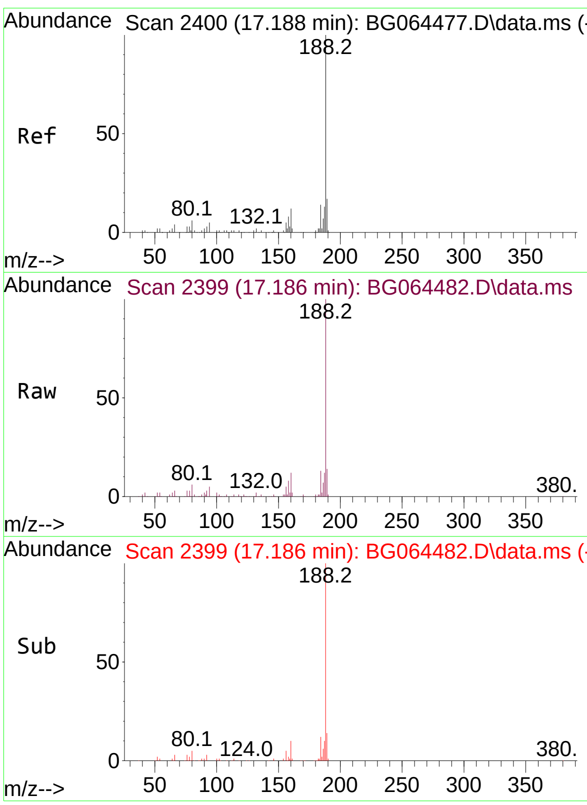
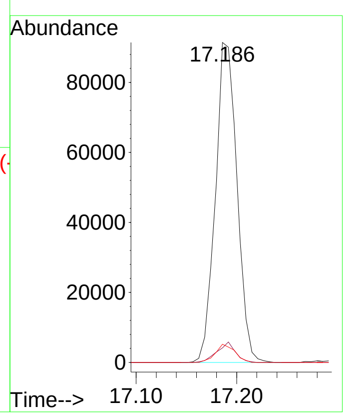
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.186 min Scan# 2399
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:188 Resp: 136982

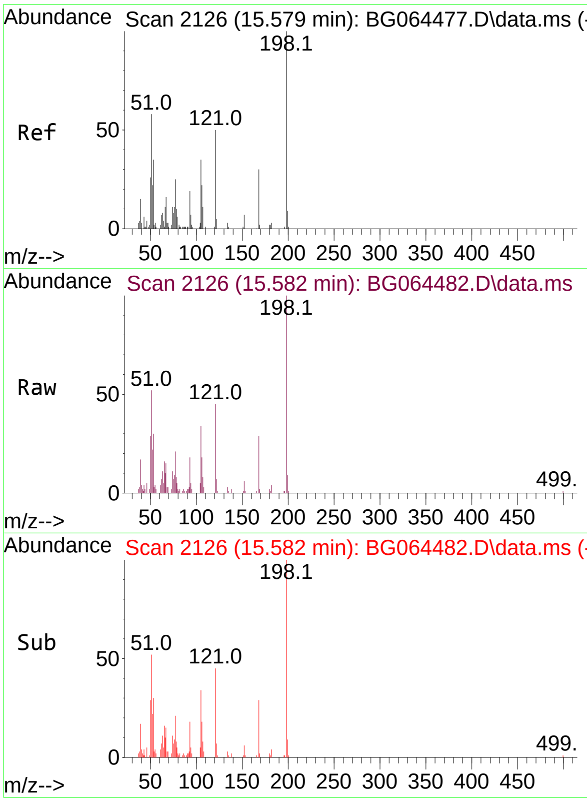
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 4.5 | 3.7 | 5.5 |
| 80 | 5.7 | 4.5 | 6.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**

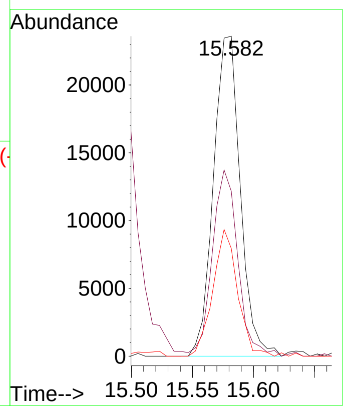
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

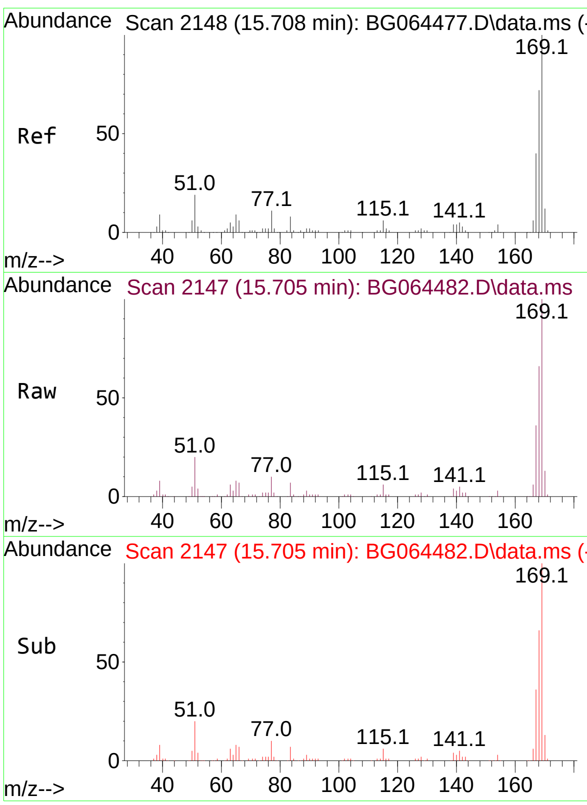



#65
4,6-Dinitro-2-methylphenol
Concen: 37.834 ng
RT: 15.582 min Scan# 21
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:198 Resp: 36085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 51.5 | 39.0 | 79.0 |
| 105 | 33.6 | 15.8 | 55.8 |

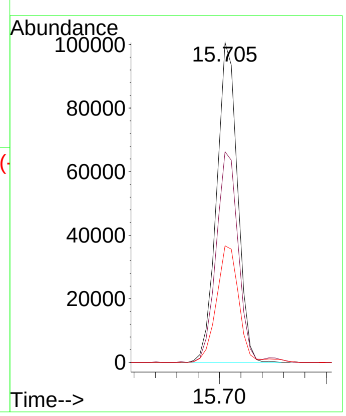



#66
n-Nitrosodiphenylamine
Concen: 37.465 ng
RT: 15.705 min Scan# 2147
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:169 Resp: 137047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 65.8 | 57.8 | 86.6 |
| 167 | 36.4 | 31.7 | 47.5 |



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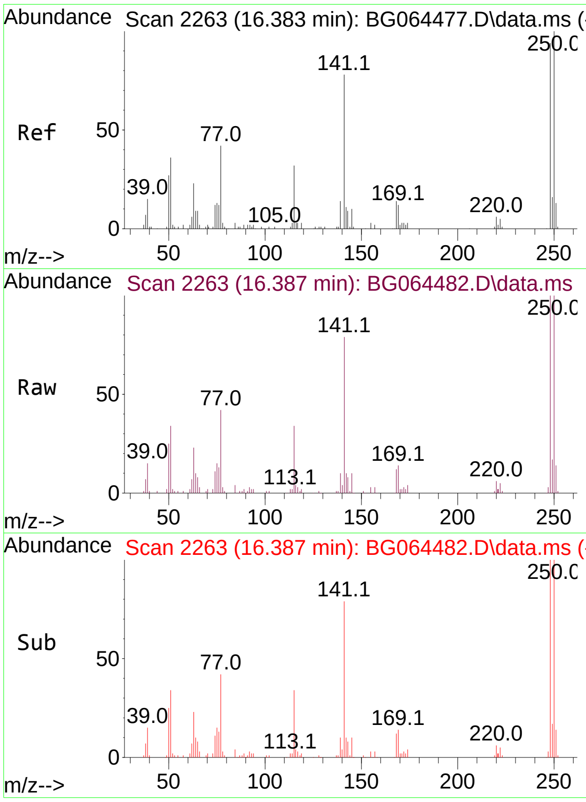


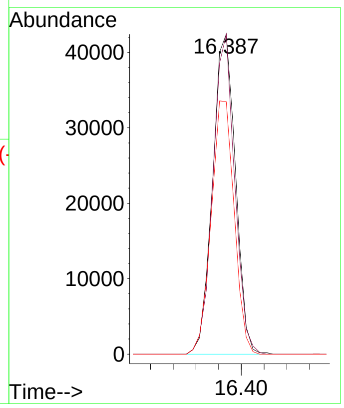

#67
4-Bromophenyl-phenylether
Concen: 36.819 ng
RT: 16.387 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

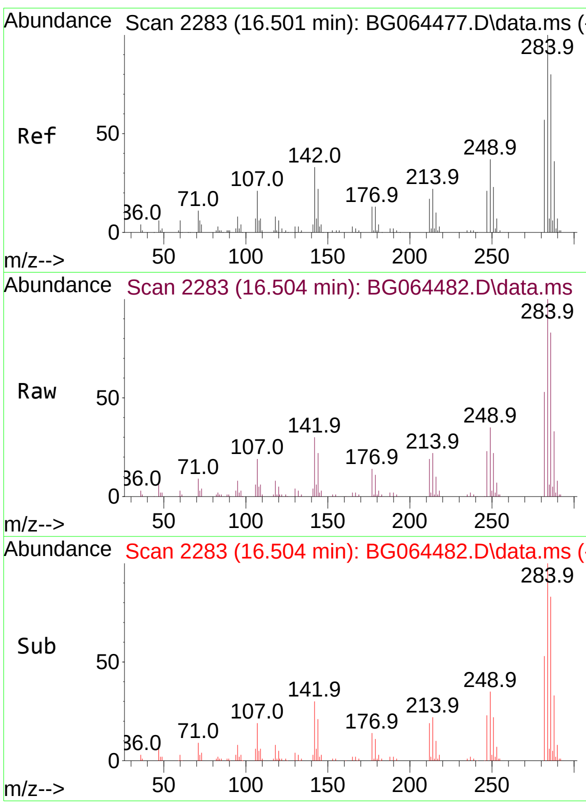
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Tgt Ion:248 Resp: 5935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.0 | 85.3 | 127.9 |
| 141 | 78.9 | 66.2 | 99.2 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

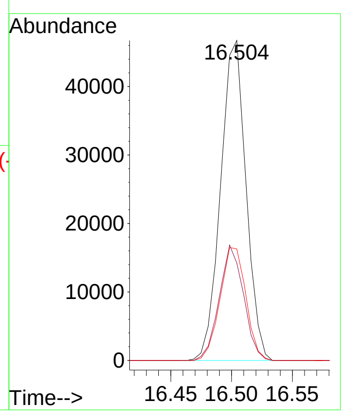


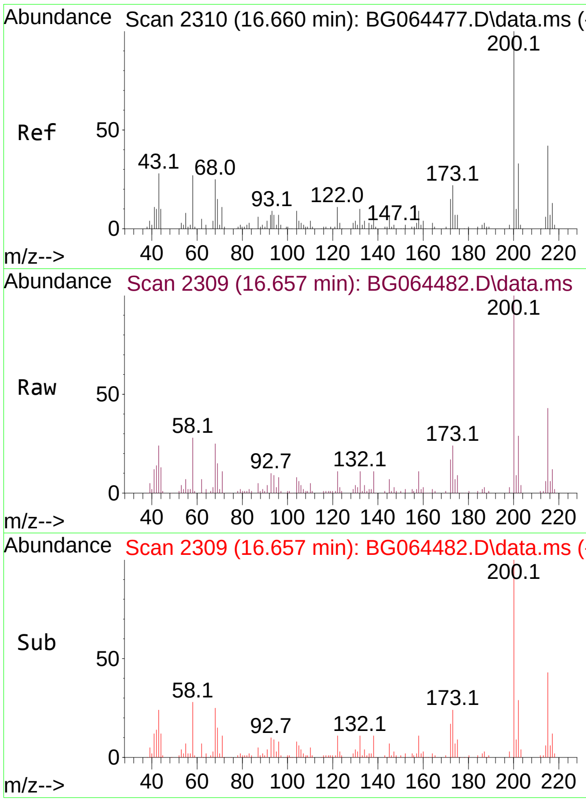

#68
Hexachlorobenzene
Concen: 36.821 ng
RT: 16.504 min Scan# 2283
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:284 Resp: 67918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.4 | 26.2 | 39.2 |
| 249 | 34.8 | 29.4 | 44.0 |



ICAL Form



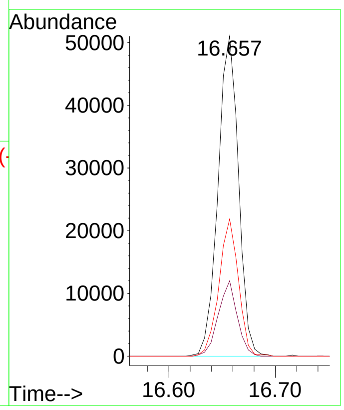

#69
Atrazine
Concen: 42.076 ng
RT: 16.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

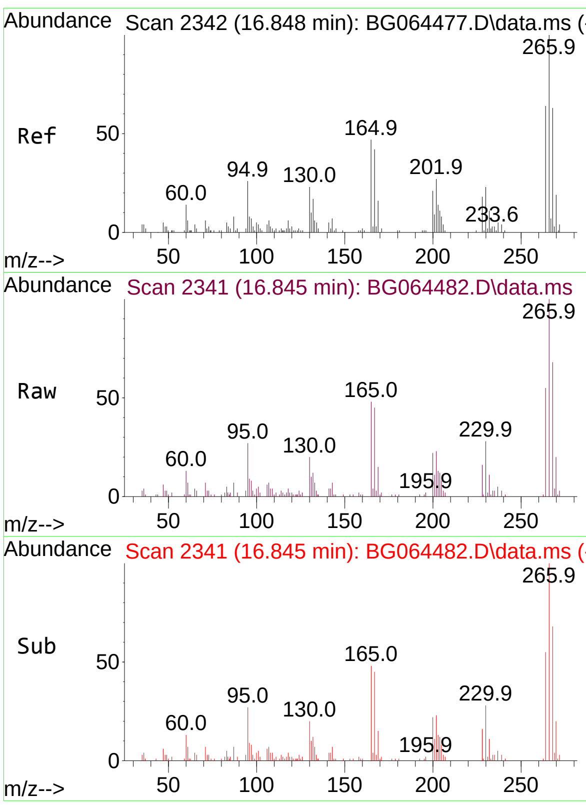
Tgt Ion:200 Resp: 6847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 23.5 | 2.5 | 42.5 |
| 215 | 42.8 | 21.5 | 61.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

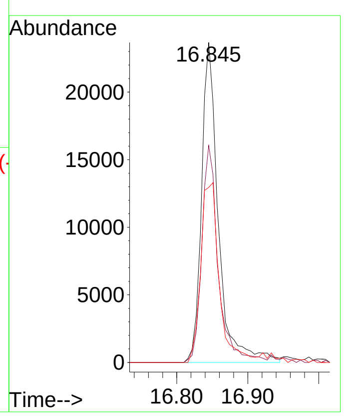


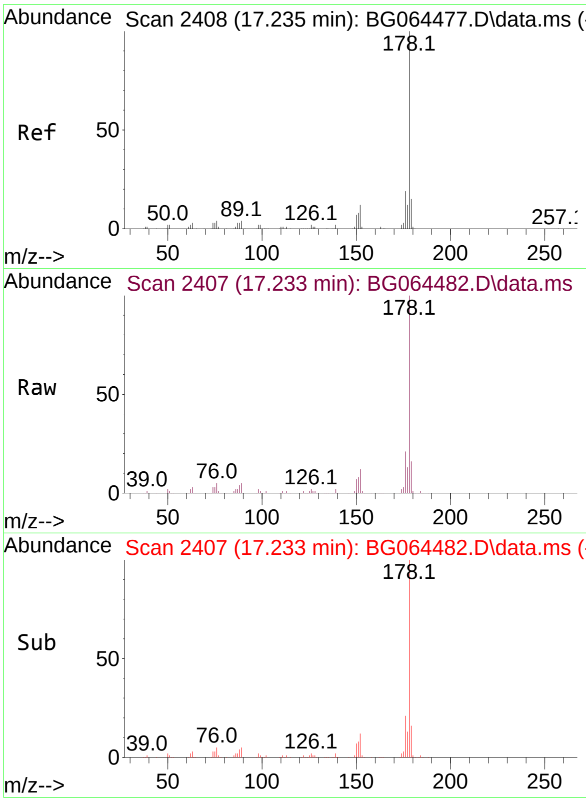




#70
Pentachlorophenol
Concen: 36.025 ng
RT: 16.845 min Scan# 2341
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:266 Resp: 38853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 67.8 | 50.6 | 75.8 |
| 264 | 54.7 | 51.2 | 76.8 |






#71
Phenanthrene
Concen: 37.108 ng
RT: 17.233 min Scan# 24
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

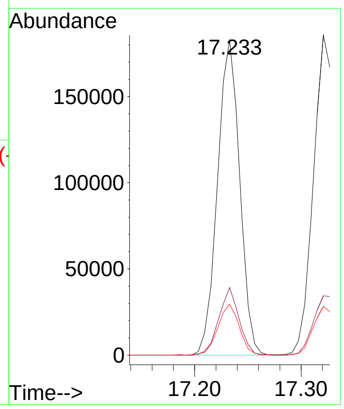
Tgt Ion:178 Resp: 26582

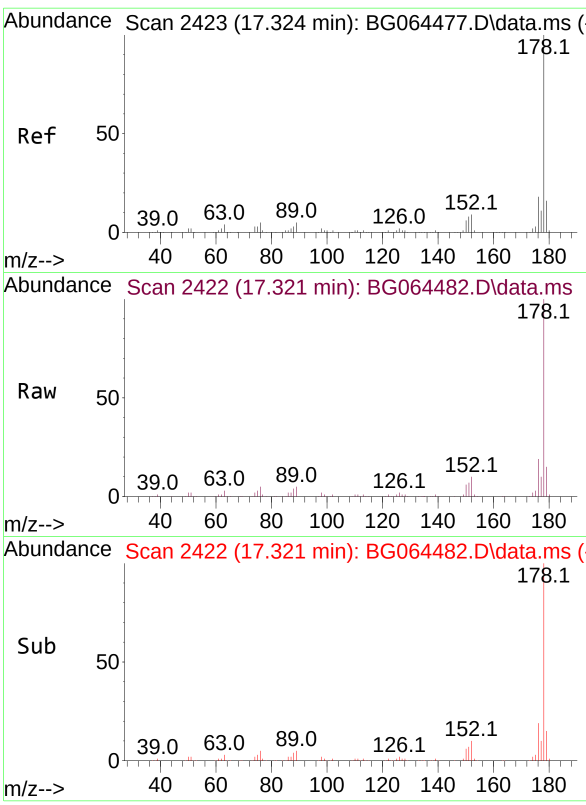
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 21.5 | 15.2 | 22.8 |
| 179 | 16.0 | 11.8 | 17.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

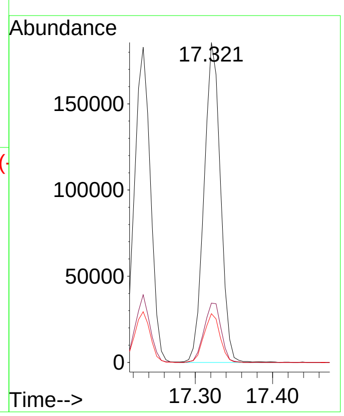


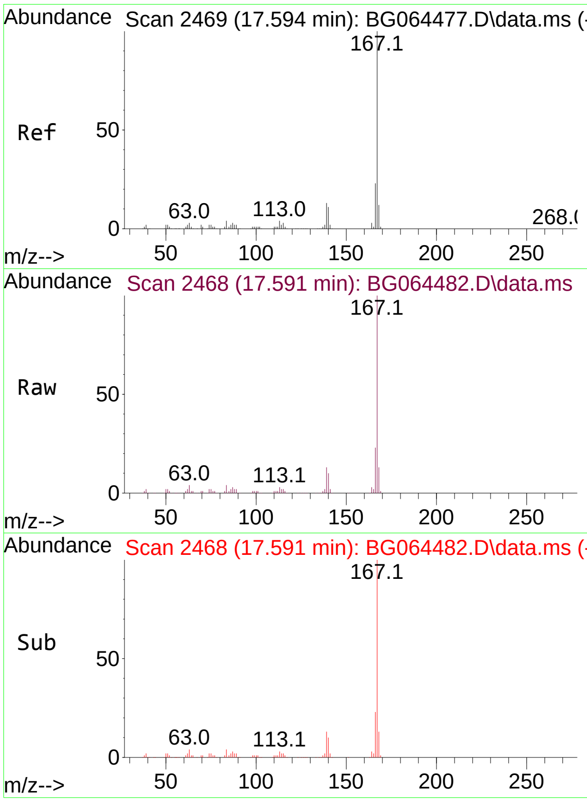




#72
Anthracene
Concen: 38.159 ng
RT: 17.321 min Scan# 2422
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:178 Resp: 274231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 21.8 |
| 179 | 15.2 | 12.5 | 18.7 |






#73
Carbazole
Concen: 39.673 ng
RT: 17.591 min Scan# 24
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

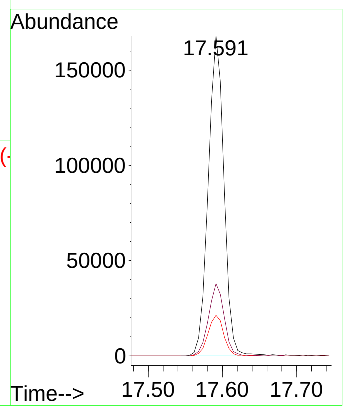
Tgt Ion:167 Resp: 246445

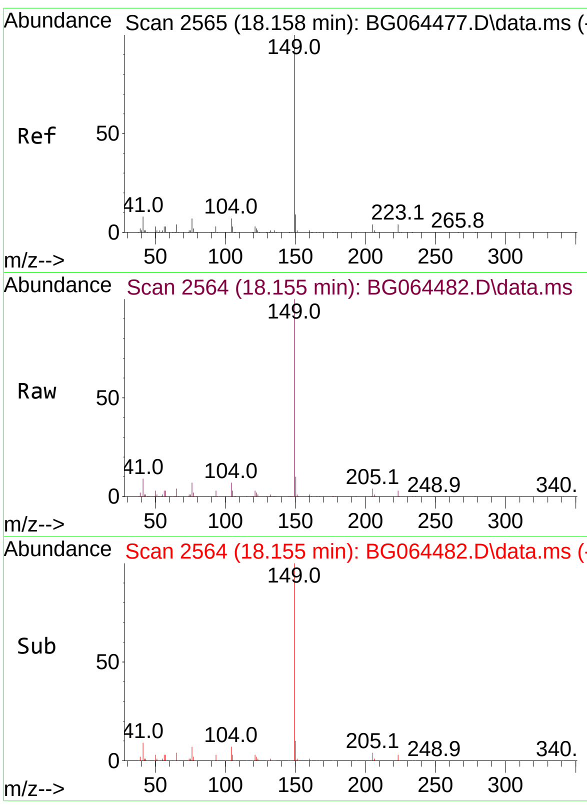
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.6 | 18.6 | 27.8 |
| 139 | 12.7 | 10.2 | 15.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

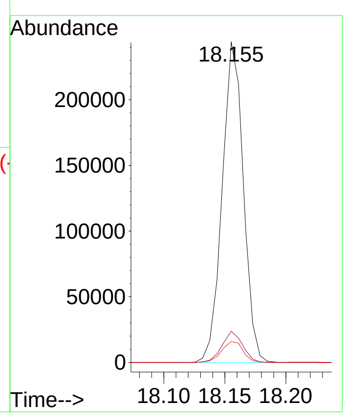


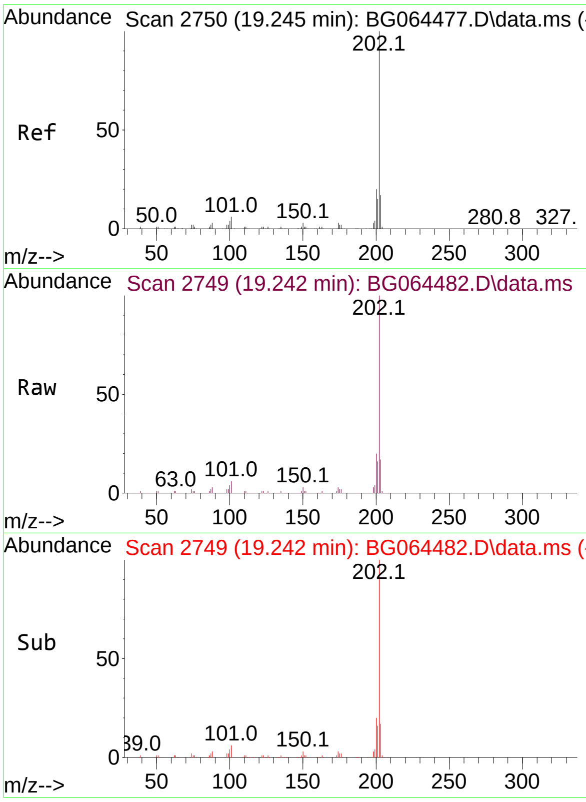

#74
Di-n-butylphthalate
Concen: 38.852 ng
RT: 18.155 min Scan# 2564
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:149 Resp: 294614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.7 | 7.4 | 11.2 |
| 104 | 6.5 | 5.3 | 7.9 |



ICAL Form




#75
Fluoranthene
Concen: 38.739 ng
RT: 19.242 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

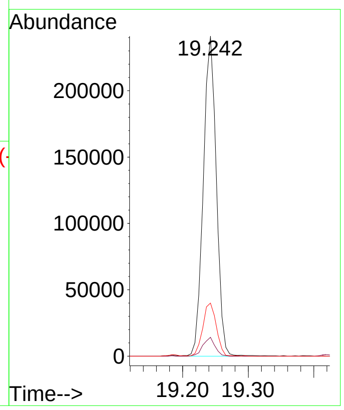
Tgt Ion:202 Resp: 331530

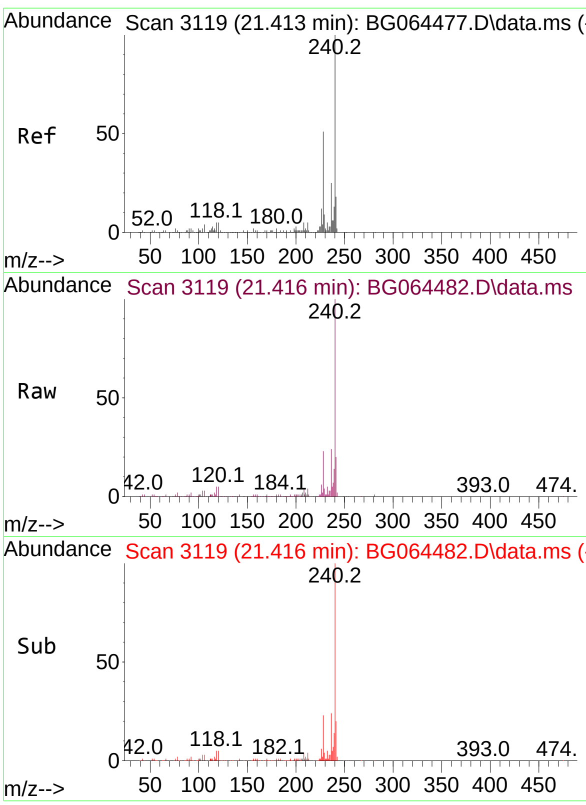
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.9 | 0.0 | 25.7 |
| 203 | 16.6 | 0.0 | 36.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

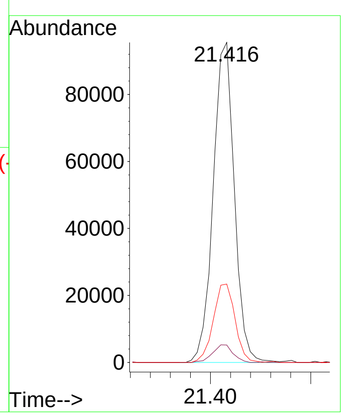


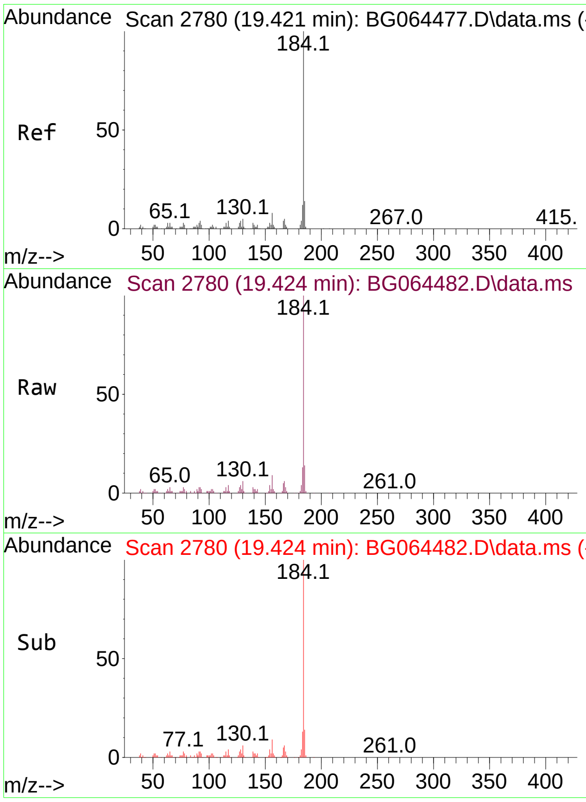

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.416 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:240 Resp: 140392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.4 | 4.3 | 6.5 |
| 236 | 24.5 | 20.4 | 30.6 |



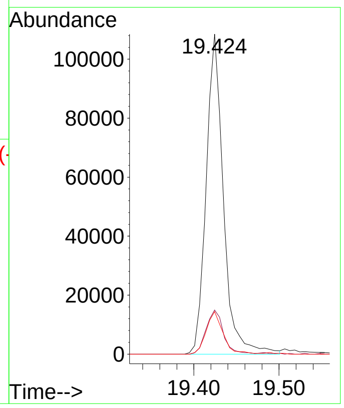
ICAL Form




#77
Benzidine
Concen: 43.772 ng
RT: 19.424 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

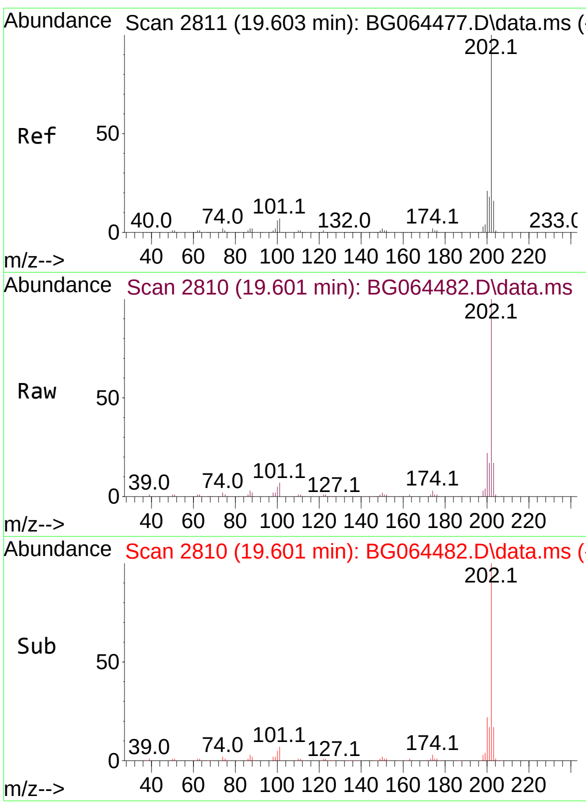
Tgt Ion:184 Resp: 15291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.8 | 10.9 | 16.3 |
| 183 | 13.3 | 9.8 | 14.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

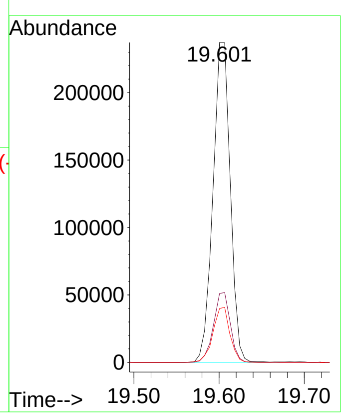
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



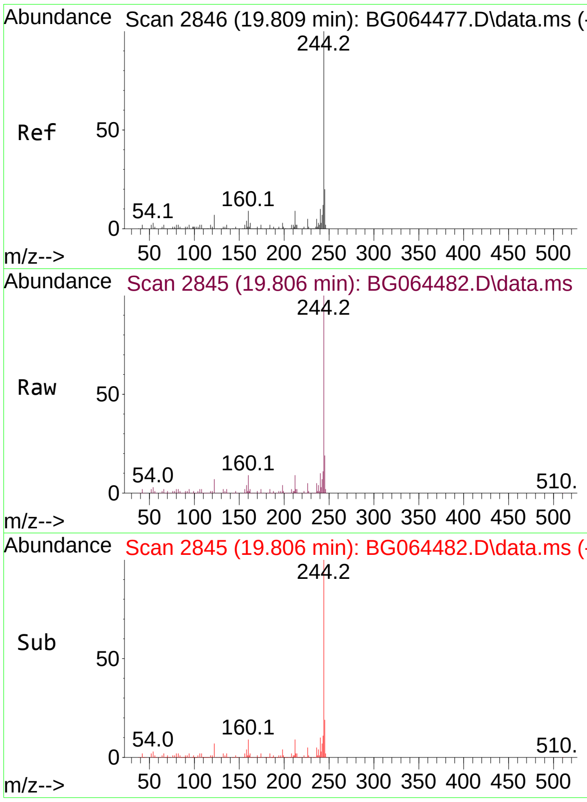

#78
Pyrene
Concen: 36.856 ng
RT: 19.601 min Scan# 2810
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:202 Resp: 335798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 17.0 | 25.4 |
| 203 | 16.8 | 13.0 | 19.4 |



ICAL Form



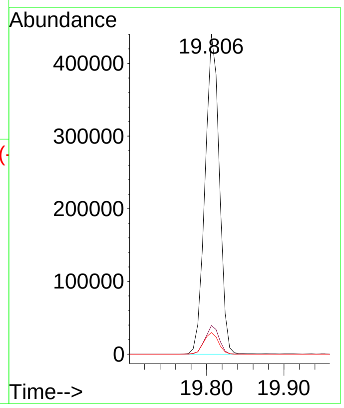

#79
Terphenyl-d14
Concen: 76.071 ng
RT: 19.806 min Scan# 28
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

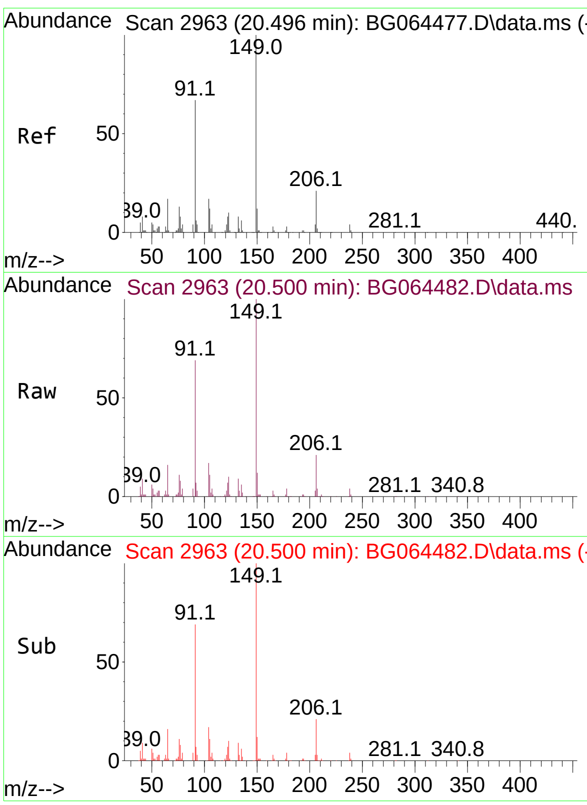
Tgt Ion:244 Resp: 564322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.9 | 7.0 | 10.6 |
| 122 | 6.7 | 5.6 | 8.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

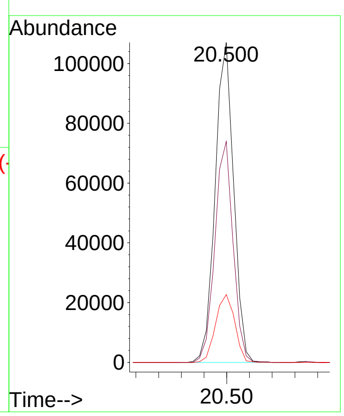


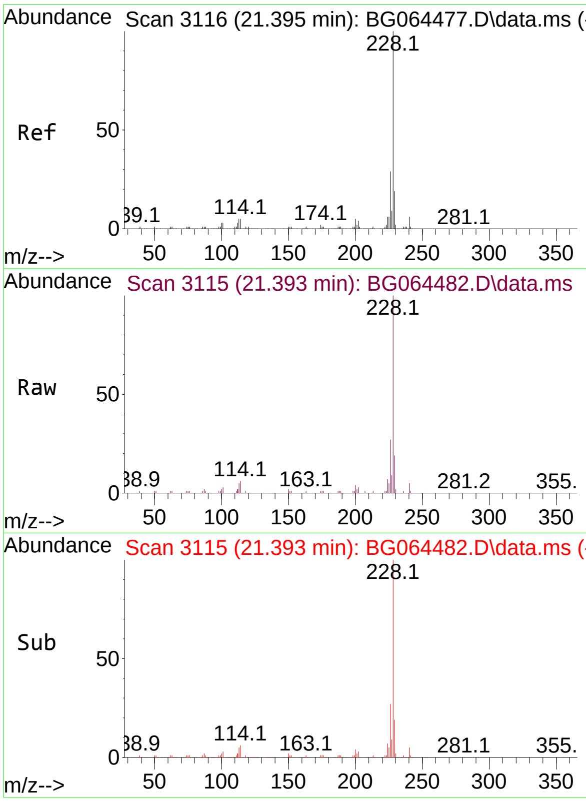




#80
Butylbenzylphthalate
Concen: 37.565 ng
RT: 20.500 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:149 Resp: 121325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 69.0 | 53.7 | 80.5 |
| 206 | 21.2 | 16.6 | 24.8 |

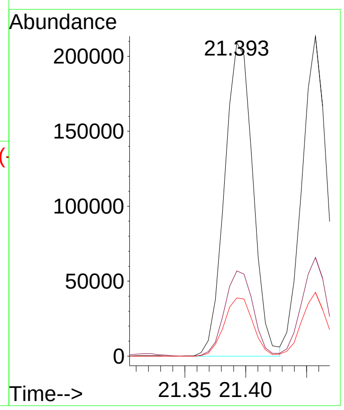





#81
Benzo(a)anthracene
Concen: 37.867 ng
RT: 21.393 min Scan# 31
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:228 Resp: 339443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.8 | 34.2 |
| 229 | 18.6 | 15.2 | 22.8 |

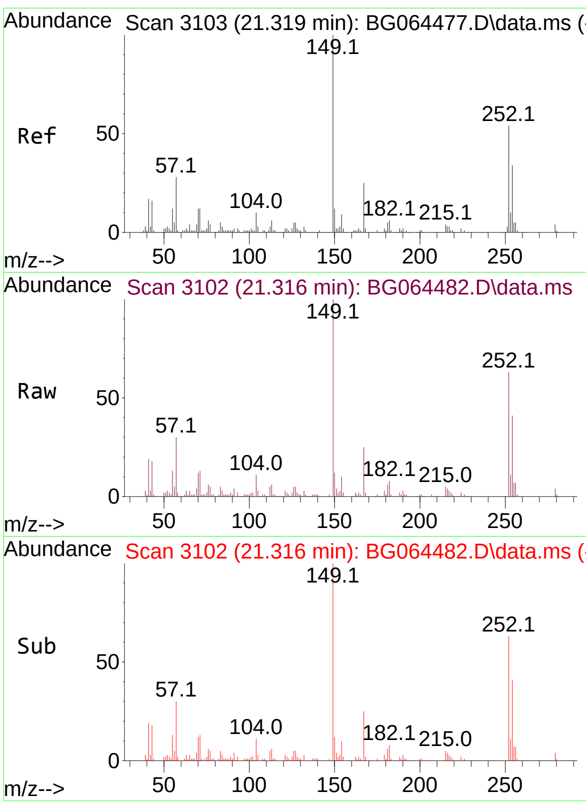



ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

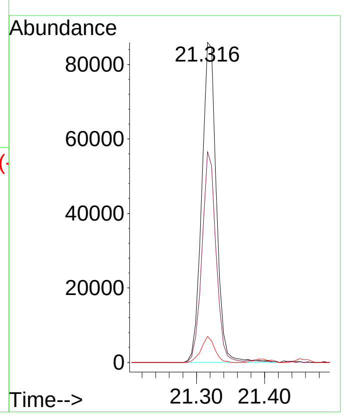
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



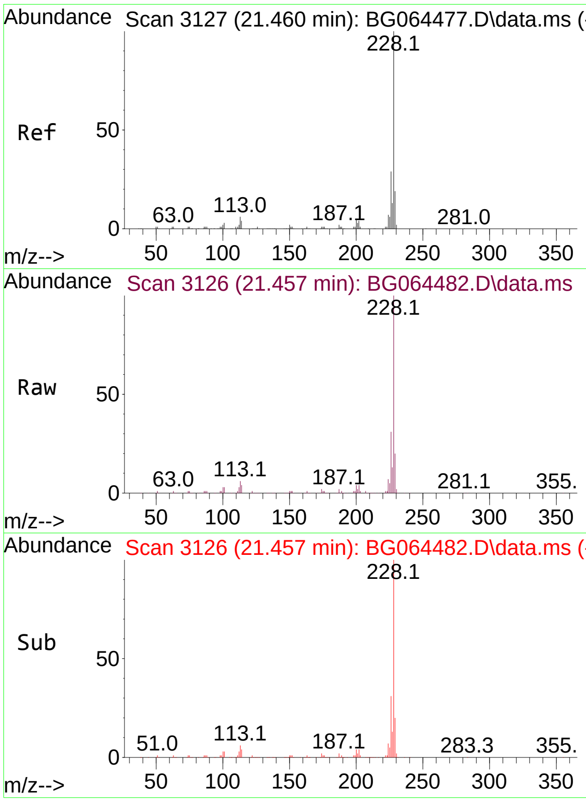

#82
3,3'-Dichlorobenzidine
Concen: 42.355 ng
RT: 21.316 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:252 Resp: 128504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 65.8 | 50.5 | 75.7 |
| 126 | 8.1 | 7.1 | 10.7 |



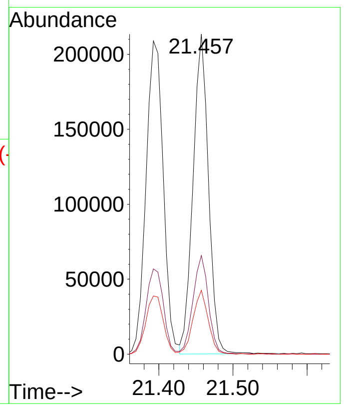
ICAL Form




#83
Chrysene
Concen: 36.434 ng
RT: 21.457 min Scan# 31
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:228 Resp: 30973

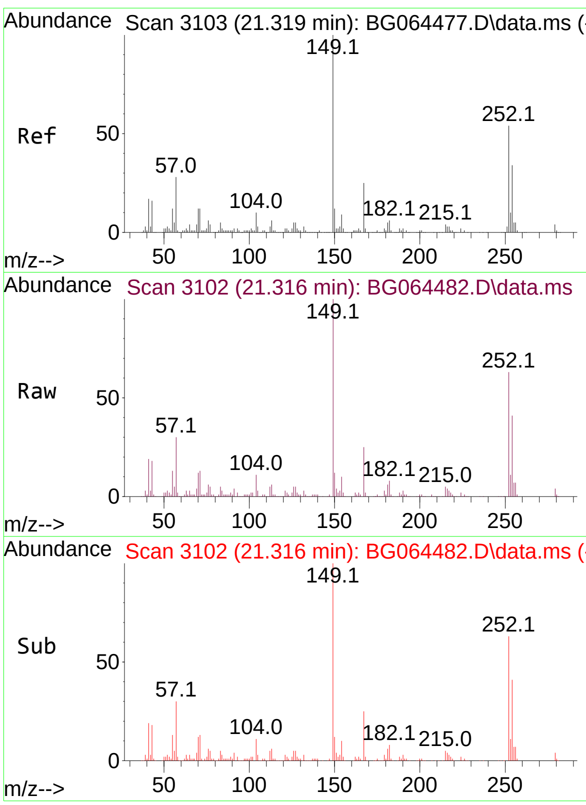
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 22.8 | 34.2 |
| 229 | 19.9 | 15.4 | 23.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations APPROVED**

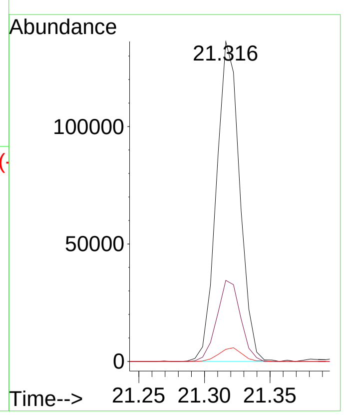
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

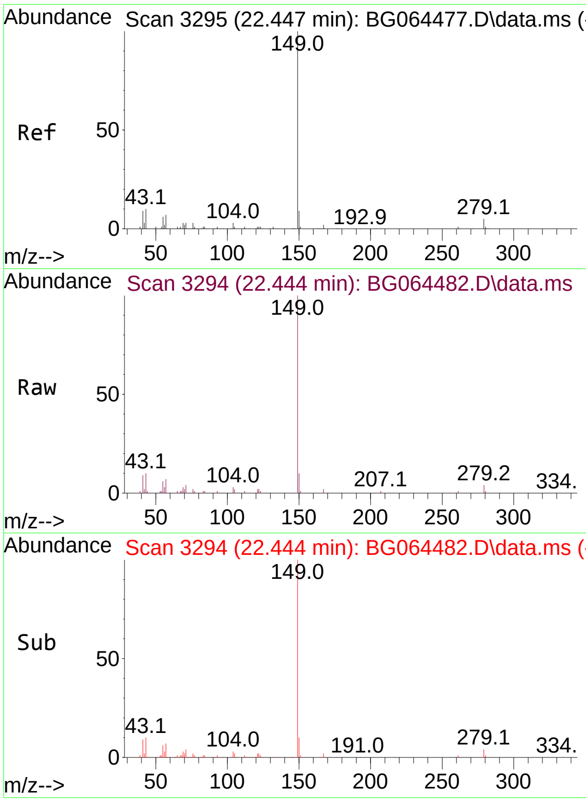



#84
Bis(2-ethylhexyl)phthalate
Concen: 37.082 ng
RT: 21.316 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:149 Resp: 168982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.3 | 19.7 | 29.5 |
| 279 | 3.8 | 3.4 | 5.2 |





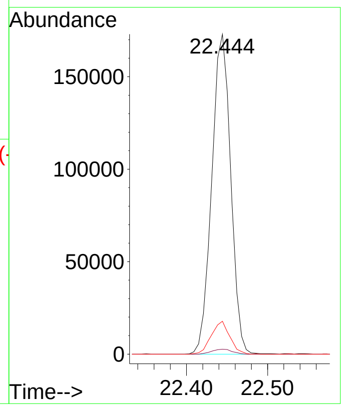

#85
Di-n-octyl phthalate
Concen: 36.720 ng
RT: 22.444 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

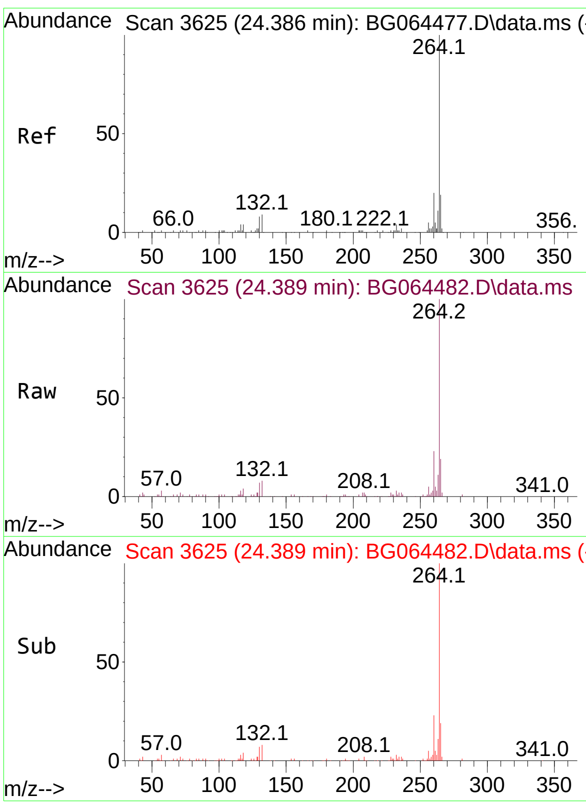
**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Tgt Ion:149 Resp: 28123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 10.0 | 7.9 | 11.9 |

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

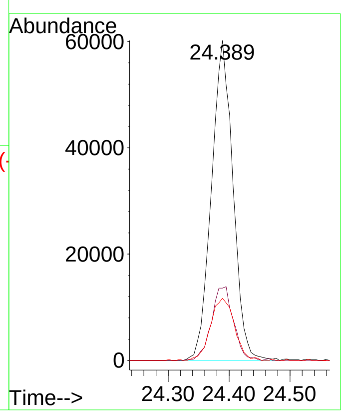



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.389 min Scan# 3625
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

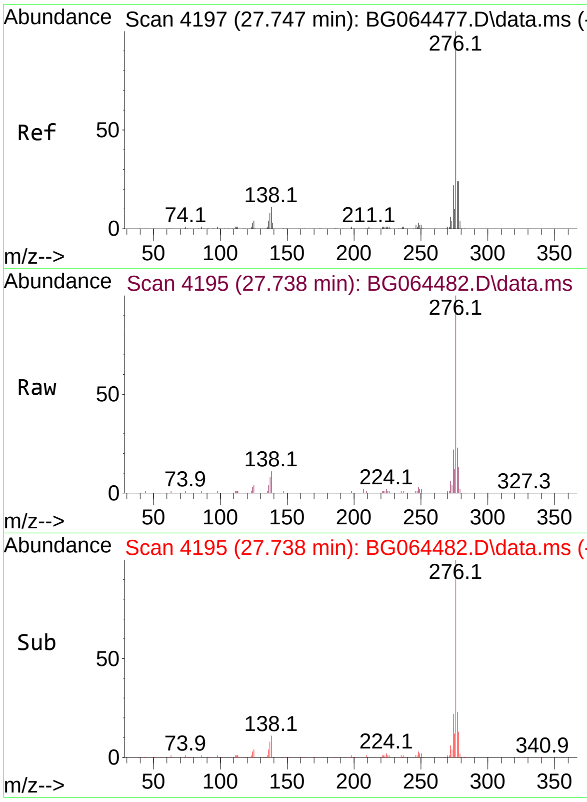
Tgt Ion:264 Resp: 148372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.6 | 16.2 | 24.4 |
| 265 | 19.4 | 15.0 | 22.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

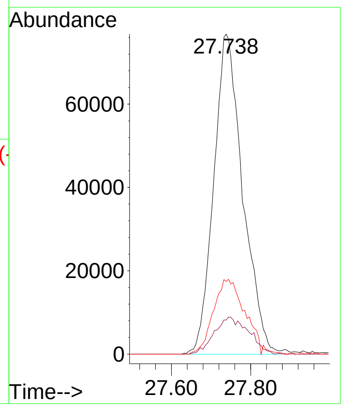
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

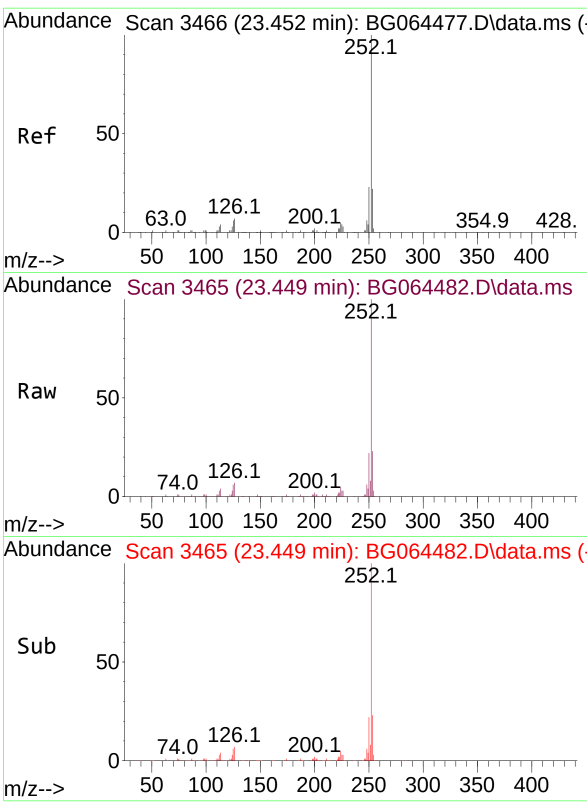



#87
Indeno(1,2,3-cd)pyrene
Concen: 37.816 ng
RT: 27.738 min Scan# 41
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:276 Resp: 39054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.6 | 10.8 | 16.2 |
| 277 | 25.8 | 20.3 | 30.5 |

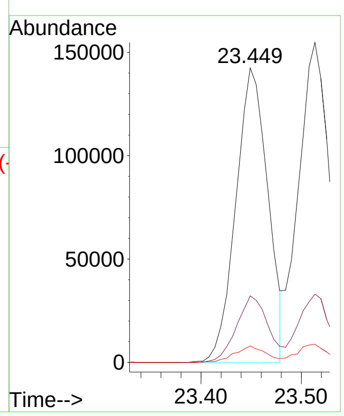


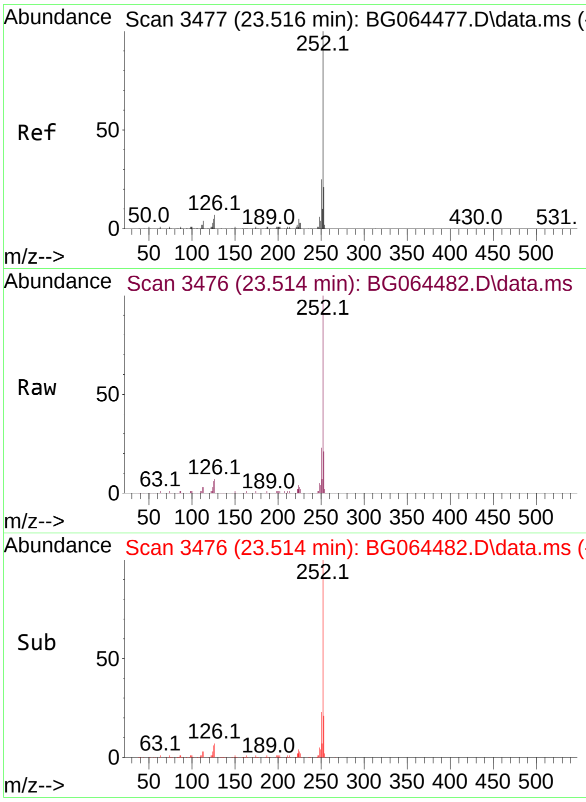




#88
Benzo(b)fluoranthene
Concen: 37.423 ng
RT: 23.449 min Scan# 3465
Delta R.T. -0.000 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:252 Resp: 315880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 17.5 | 26.3 |
| 125 | 5.6 | 4.5 | 6.7 |





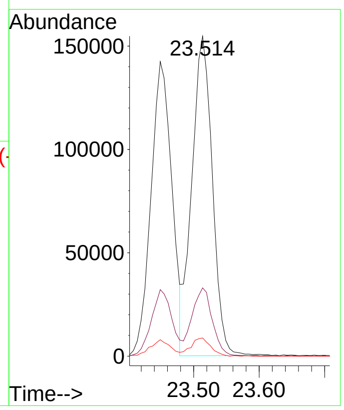

#89
Benzo(k)fluoranthene
Concen: 39.643 ng
RT: 23.514 min Scan# 34
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

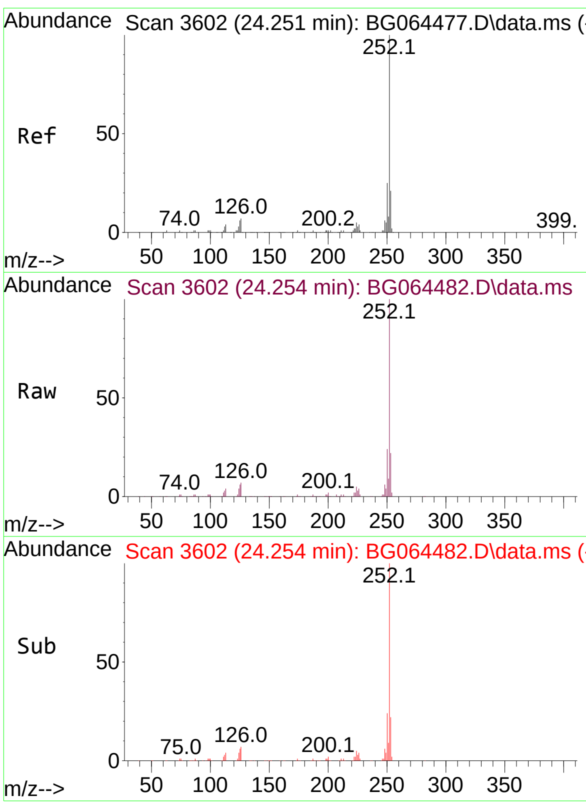
Tgt Ion:252 Resp: 337015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 17.4 | 26.2 |
| 125 | 5.7 | 4.0 | 6.0 |

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

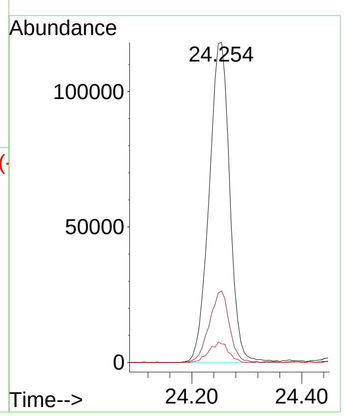



#90
Benzo(a)pyrene
Concen: 39.468 ng
RT: 24.254 min Scan# 3602
Delta R.T. 0.006 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

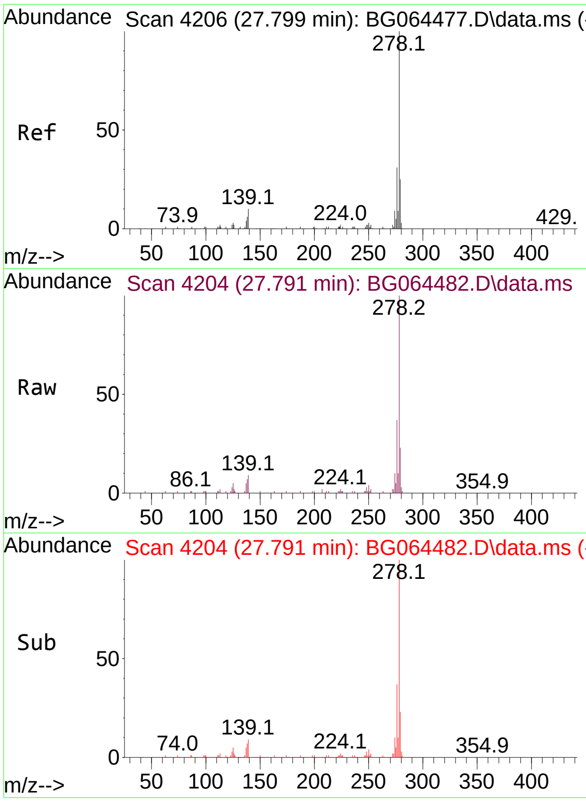
Tgt Ion:252 Resp: 307034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.1 | 25.7 |
| 125 | 5.8 | 4.6 | 6.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

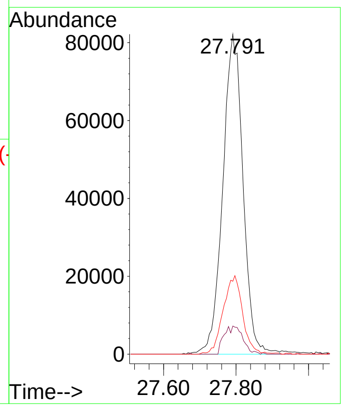
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

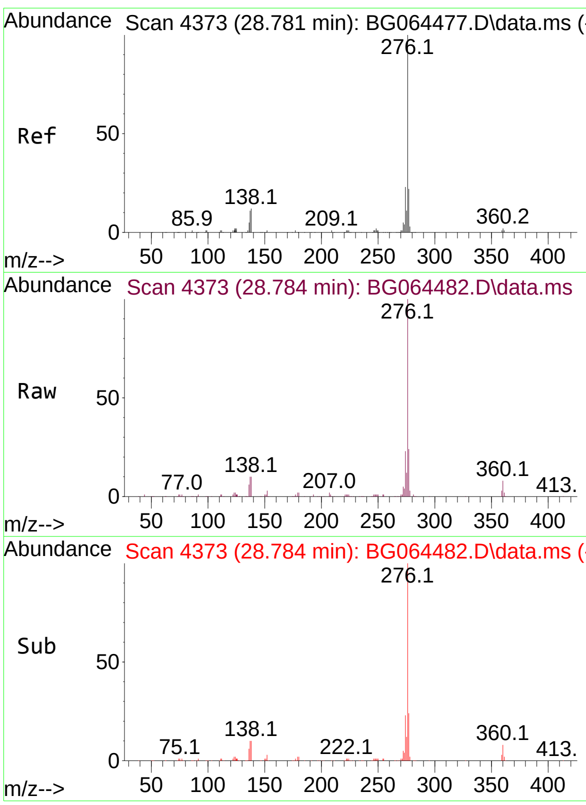



#91
Dibenzo(a,h)anthracene
Concen: 38.585 ng
RT: 27.791 min Scan# 4
Delta R.T. 0.012 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:278 Resp: 31867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 8.8 | 8.2 | 12.2 |
| 279 | 22.8 | 19.6 | 29.4 |

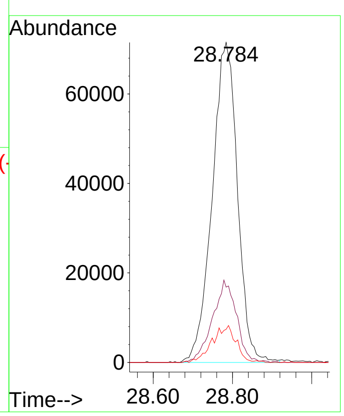



#92
Benzo(g,h,i)perylene
Concen: 39.498 ng
RT: 28.784 min Scan# 4373
Delta R.T. 0.017 min
Lab File: BG064482.D
Acq: 2 Oct 2025 18:09

Tgt Ion:276 Resp: 317018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.5 | 17.8 | 26.6 |
| 138 | 10.3 | 9.4 | 14.0 |



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG100225

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 2 | | 1,4-Dioxane | 0.427 | 0.392 | 8.2 | 81 | 0.00 |
| 3 | | Pyridine | 1.149 | 1.017 | 11.5 | 75 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.833 | 0.813 | 2.4 | 86 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.081 | 1.018 | 5.8 | 78 | 0.00 |
| 6 | | Aniline | 1.832 | 1.883 | -2.8 | 85 | 0.00 |
| 7 | S | Phenol-d6 | 1.452 | 1.407 | 3.1 | 79 | 0.01 |
| 8 | | 2-Chlorophenol | 1.327 | 1.231 | 7.2 | 77 | 0.00 |
| 9 | | Benzaldehyde | 1.289 | 1.040 | 19.3 | 62 | 0.00 |
| 10 | C | Phenol | 1.532 | 1.471 | 4.0 | 80 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.038 | 0.969 | 6.6 | 78 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.452 | 1.361 | 6.3 | 78 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.457 | 1.452 | 0.3 | 84 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.436 | 1.381 | 3.8 | 82 | 0.00 |
| 15 | | Benzyl Alcohol | 1.337 | 1.363 | -1.9 | 86 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.672 | 1.597 | 4.5 | 81 | 0.01 |
| 17 | | 2-Methylphenol | 1.109 | 1.069 | 3.6 | 80 | 0.00 |
| 18 | | Hexachloroethane | 0.575 | 0.545 | 5.2 | 82 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 0.971 | 0.995 | -2.5 | 83 | 0.01 |
| 20 | | 3+4-Methylphenols | 1.548 | 1.505 | 2.8 | 81 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 22 | | Acetophenone | 0.484 | 0.483 | 0.2 | 86 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.372 | 0.339 | 8.9 | 79 | 0.01 |
| 24 | | Nitrobenzene | 0.371 | 0.345 | 7.0 | 80 | 0.00 |
| 25 | | Isophorone | 0.674 | 0.660 | 2.1 | 84 | 0.01 |
| 26 | C | 2-Nitrophenol | 0.185 | 0.163 | 11.9 | 78 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.282 | 0.296 | -5.0 | 91 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.343 | 0.331 | 3.5 | 81 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.326 | 0.317 | 2.8 | 85 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.356 | 0.344 | 3.4 | 84 | 0.00 |
| 31 | | Naphthalene | 1.030 | 0.991 | 3.8 | 82 | 0.00 |
| 32 | | Benzoic acid | 0.216 | 0.218 | -0.9 | 87 | 0.05 |
| 33 | | 4-Chloroaniline | 0.395 | 0.423 | -7.1 | 93 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.304 | 0.278 | 8.6 | 81 | 0.00 |
| 35 | | Caprolactam | 0.112 | 0.108 | 3.6 | 86 | 0.02 |
| 36 | C | 4-Chloro-3-methylphenol | 0.397 | 0.381 | 4.0 | 83 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.791 | 0.696 | 12.0 | 76 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.788 | 0.728 | 7.6 | 81 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.646 | 0.622 | 3.7 | 84 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.338 | 0.426 | -26.0# | 112 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.363 | 0.348 | 4.1 | 87 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.413 | 0.403 | 2.4 | 86 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.461 | 0.436 | 5.4 | 85 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.357 | 1.264 | 6.9 | 84 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.438 | 1.393 | 3.1 | 87 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.074 | 1.013 | 5.7 | 84 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.367 | 0.359 | 2.2 | 86 | 0.00 |
| 49 | | Acenaphthylene | 1.594 | 1.747 | -9.6 | 98 | 0.00 |
| 50 | | Dimethylphthalate | 1.566 | 1.484 | 5.2 | 87 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.326 | 0.316 | 3.1 | 89 | 0.00 |
| 52 | C | Acenaphthene | 1.108 | 1.015 | 8.4 | 83 | 0.00 |
| 53 | | 3-Nitroaniline | 0.301 | 0.306 | -1.7 | 91 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.237 | 0.198 | 16.5 | 91 | 0.00 |
| 55 | | Dibenzofuran | 1.829 | 1.744 | 4.6 | 87 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.237 | 0.235 | 0.8 | 86 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.499 | 0.491 | 1.6 | 89 | 0.00 |
| 58 | | Fluorene | 1.520 | 1.500 | 1.3 | 89 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.470 | 0.471 | -0.2 | 89 | 0.00 |
| 60 | | Diethylphthalate | 1.680 | 1.610 | 4.2 | 89 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.830 | 0.756 | 8.9 | 83 | 0.00 |
| 62 | | 4-Nitroaniline | 0.314 | 0.325 | -3.5 | 93 | 0.00 |
| 63 | | Azobenzene | 1.301 | 1.254 | 3.6 | 89 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.139 | 0.132 | 5.0 | 91 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.534 | 0.500 | 6.4 | 88 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.235 | 0.217 | 7.7 | 85 | 0.00 |
| 68 | | Hexachlorobenzene | 0.269 | 0.248 | 7.8 | 86 | 0.00 |
| 69 | | Atrazine | 0.238 | 0.250 | -5.0 | 100 | 0.00 |
| 70 | C | Pentachlorophenol | 0.157 | 0.142 | 9.6 | 84 | 0.00 |
| 71 | | Phenanthrene | 1.046 | 0.970 | 7.3 | 87 | 0.00 |
| 72 | | Anthracene | 1.049 | 1.001 | 4.6 | 89 | 0.00 |
| 73 | | Carbazole | 0.907 | 0.900 | 0.8 | 91 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.107 | 1.075 | 2.9 | 90 | 0.00 |
| 75 | C | Fluoranthene | 1.250 | 1.210 | 3.2 | 91 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 77 | | Benzidine | 0.498 | 0.545 | -9.4 | 85 | 0.00 |
| 78 | | Pyrene | 1.298 | 1.196 | 7.9 | 88 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.057 | 1.005 | 4.9 | 91 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.460 | 0.432 | 6.1 | 89 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.277 | 1.209 | 5.3 | 91 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.432 | 0.458 | -6.0 | 102 | 0.00 |
| 83 | | Chrysene | 1.211 | 1.103 | 8.9 | 87 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.649 | 0.602 | 7.2 | 89 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.091 | 1.002 | 8.2 | 88 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.392 | 1.316 | 5.5 | 89 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.138 | 1.064 | 6.5 | 89 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.146 | 1.136 | 0.9 | 93 | 0.00 |
| 90 | C | Benzo(a)pyrene | 1.049 | 1.035 | 1.3 | 93 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.113 | 1.074 | 3.5 | 91 | 0.01 |
| 92 | | Benzo(g,h,i)perylene | 1.082 | 1.068 | 1.3 | 93 | 0.02 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 91 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 36.657 | 8.4 | 81 | 0.00 |
| 3 | | Pyridine | 40.000 | 35.418 | 11.5 | 75 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 39.031 | 2.4 | 86 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 75.359 | 5.8 | 78 | 0.00 |
| 6 | | Aniline | 40.000 | 41.109 | -2.8 | 85 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 77.494 | 3.1 | 79 | 0.01 |
| 8 | | 2-Chlorophenol | 40.000 | 37.094 | 7.3 | 77 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 32.268 | 19.3 | 62 | 0.00 |
| 10 | C | Phenol | 40.000 | 38.413 | 4.0 | 80 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 37.341 | 6.6 | 78 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 37.504 | 6.2 | 78 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 39.872 | 0.3 | 84 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 38.466 | 3.8 | 82 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 40.756 | -1.9 | 86 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 38.204 | 4.5 | 81 | 0.01 |
| 17 | | 2-Methylphenol | 40.000 | 38.553 | 3.6 | 80 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 37.877 | 5.3 | 82 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 40.984 | -2.5 | 83 | 0.01 |
| 20 | | 3+4-Methylphenols | 40.000 | 38.893 | 2.8 | 81 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 22 | | Acetophenone | 40.000 | 39.906 | 0.2 | 86 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 72.999 | 8.8 | 79 | 0.01 |
| 24 | | Nitrobenzene | 40.000 | 37.170 | 7.1 | 80 | 0.00 |
| 25 | | Isophorone | 40.000 | 39.198 | 2.0 | 84 | 0.01 |
| 26 | C | 2-Nitrophenol | 40.000 | 35.388 | 11.5 | 78 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 41.959 | -4.9 | 91 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 38.540 | 3.7 | 81 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 38.857 | 2.9 | 85 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 38.743 | 3.1 | 84 | 0.00 |
| 31 | | Naphthalene | 40.000 | 38.491 | 3.8 | 82 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 40.223 | -0.6 | 87 | 0.05 |
| 33 | | 4-Chloroaniline | 40.000 | 42.784 | -7.0 | 93 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 36.587 | 8.5 | 81 | 0.00 |
| 35 | | Caprolactam | 40.000 | 38.812 | 3.0 | 86 | 0.02 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 38.389 | 4.0 | 83 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 35.191 | 12.0 | 76 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 36.933 | 7.7 | 81 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 38.511 | 3.7 | 84 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 50.483 | -26.2# | 112 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 76.705 | 4.1 | 87 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 39.030 | 2.4 | 86 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 37.827 | 5.4 | 85 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 74.539 | 6.8 | 84 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 38.735 | 3.2 | 87 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 37.716 | 5.7 | 84 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On : 2 Oct 2025 18:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 48 | 2-Nitroaniline | 40.000 | 39.151 | 2.1 | 86 | 0.00 |
| 49 | Acenaphthylene | 40.000 | 43.842 | -9.6 | 98 | 0.00 |
| 50 | Dimethylphthalate | 40.000 | 37.903 | 5.2 | 87 | 0.00 |
| 51 | 2,6-Dinitrotoluene | 40.000 | 38.742 | 3.1 | 89 | 0.00 |
| 52 C | Acenaphthene | 40.000 | 36.666 | 8.3 | 83 | 0.00 |
| 53 | 3-Nitroaniline | 40.000 | 40.727 | -1.8 | 91 | 0.00 |
| 54 P | 2,4-Dinitrophenol | 40.000 | 33.540 | 16.2 | 91 | 0.00 |
| 55 | Dibenzofuran | 40.000 | 38.141 | 4.6 | 87 | 0.00 |
| 56 P | 4-Nitrophenol | 40.000 | 39.712 | 0.7 | 86 | 0.00 |
| 57 | 2,4-Dinitrotoluene | 40.000 | 39.388 | 1.5 | 89 | 0.00 |
| 58 | Fluorene | 40.000 | 39.456 | 1.4 | 89 | 0.00 |
| 59 | 2,3,4,6-Tetrachlorophenol | 40.000 | 40.021 | -0.1 | 89 | 0.00 |
| 60 | Diethylphthalate | 40.000 | 38.317 | 4.2 | 89 | 0.00 |
| 61 | 4-Chlorophenyl-phenylether | 40.000 | 36.432 | 8.9 | 83 | 0.00 |
| 62 | 4-Nitroaniline | 40.000 | 41.435 | -3.6 | 93 | 0.00 |
| 63 | Azobenzene | 40.000 | 38.553 | 3.6 | 89 | 0.00 |
| 64 I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 100 | 0.00 |
| 65 | 4,6-Dinitro-2-methylphenol | 40.000 | 37.834 | 5.4 | 91 | 0.00 |
| 66 c | n-Nitrosodiphenylamine | 40.000 | 37.465 | 6.3 | 88 | 0.00 |
| 67 | 4-Bromophenyl-phenylether | 40.000 | 36.819 | 8.0 | 85 | 0.00 |
| 68 | Hexachlorobenzene | 40.000 | 36.821 | 7.9 | 86 | 0.00 |
| 69 | Atrazine | 40.000 | 42.076 | -5.2 | 100 | 0.00 |
| 70 C | Pentachlorophenol | 40.000 | 36.025 | 9.9 | 84 | 0.00 |
| 71 | Phenanthrene | 40.000 | 37.108 | 7.2 | 87 | 0.00 |
| 72 | Anthracene | 40.000 | 38.159 | 4.6 | 89 | 0.00 |
| 73 | Carbazole | 40.000 | 39.673 | 0.8 | 91 | 0.00 |
| 74 | Di-n-butylphthalate | 40.000 | 38.852 | 2.9 | 90 | 0.00 |
| 75 C | Fluoranthene | 40.000 | 38.739 | 3.2 | 91 | 0.00 |
| 76 I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 77 | Benzidine | 40.000 | 43.772 | -9.4 | 85 | 0.00 |
| 78 | Pyrene | 40.000 | 36.856 | 7.9 | 88 | 0.00 |
| 79 S | Terphenyl-d14 | 80.000 | 76.071 | 4.9 | 91 | 0.00 |
| 80 | Butylbenzylphthalate | 40.000 | 37.565 | 6.1 | 89 | 0.00 |
| 81 | Benzo(a)anthracene | 40.000 | 37.867 | 5.3 | 91 | 0.00 |
| 82 | 3,3'-Dichlorobenzidine | 40.000 | 42.355 | -5.9 | 102 | 0.00 |
| 83 | Chrysene | 40.000 | 36.434 | 8.9 | 87 | 0.00 |
| 84 | Bis(2-ethylhexyl)phthalate | 40.000 | 37.082 | 7.3 | 89 | 0.00 |
| 85 c | Di-n-octyl phthalate | 40.000 | 36.720 | 8.2 | 88 | 0.00 |
| 86 I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 101 | 0.00 |
| 87 | Indeno(1,2,3-cd)pyrene | 40.000 | 37.816 | 5.5 | 89 | 0.00 |
| 88 | Benzo(b)fluoranthene | 40.000 | 37.423 | 6.4 | 89 | 0.00 |
| 89 | Benzo(k)fluoranthene | 40.000 | 39.643 | 0.9 | 93 | 0.00 |
| 90 C | Benzo(a)pyrene | 40.000 | 39.468 | 1.3 | 93 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 38.585 | 3.5 | 91 | 0.01 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 39.498 | 1.3 | 93 | 0.02 |

ICAL Form

**Instrument :**
BNA_G
**ClientSampleId :**
ICVBG100225

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064482.D
Acq On    :  2 Oct 2025  18:09
Operator  : RC/JU
Sample    : SSTDICV040
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Oct 02 18:56:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration


Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 150%

       Compound                      Amount  Calc.     %Dev Area% Dev(min)
-------------------------------------------------------------------------

  (#) = Out of Range               SPCC's out = 0  CCC's out = 0
```

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: GENV01

Lab Code: ACE SDG No.: Q3274

Instrument ID: BNA_G Calibration Date/Time: 10/03/2025 13:33

Lab File ID: BG064485.D Init. Calib. Date(s): 10/02/2025 10/02/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 15:49

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.081 | 1.209 | | 11.8 | |
| Benzaldehyde | 1.290 | 1.512 | | 17.2 | |
| Phenol-d6 | 1.452 | 1.602 | | 10.3 | |
| bis(2-Chloroethyl)ether | 1.038 | 1.112 | | 7.1 | |
| 2,2-oxybis(1-Chloropropane) | 1.672 | 1.832 | | 9.6 | |
| Acetophenone | 0.484 | 0.523 | | 8.1 | |
| n-Nitroso-di-n-propylamine | 0.971 | 1.074 | 0.050 | 10.6 | |
| Nitrobenzene-d5 | 0.372 | 0.400 | | 7.5 | |
| Hexachloroethane | 0.575 | 0.621 | | 8.0 | |
| Nitrobenzene | 0.371 | 0.391 | | 5.4 | |
| Isophorone | 0.674 | 0.706 | | 4.7 | |
| bis(2-Chloroethoxy)methane | 0.343 | 0.360 | | 5.0 | |
| Naphthalene | 1.030 | 1.093 | | 6.1 | |
| 4-Chloroaniline | 0.395 | 0.420 | | 6.3 | |
| Hexachlorobutadiene | 0.304 | 0.315 | | 3.6 | 20.0 |
| Caprolactam | 0.112 | 0.122 | | 8.9 | |
| 2-Methylnaphthalene | 0.791 | 0.823 | | 4.0 | |
| Hexachlorocyclopentadiene | 0.338 | 0.368 | 0.050 | 8.9 | |
| 2-Fluorobiphenyl | 1.357 | 1.436 | | 5.8 | |
| 1,1-Biphenyl | 1.438 | 1.499 | | 4.2 | |
| 2-Chloronaphthalene | 1.074 | 1.152 | | 7.3 | |
| 2-Nitroaniline | 0.367 | 0.393 | | 7.1 | |
| Dimethylphthalate | 1.566 | 1.632 | | 4.2 | |
| Acenaphthylene | 1.594 | 1.697 | | 6.5 | |
| 2,6-Dinitrotoluene | 0.326 | 0.352 | | 8.0 | |
| 3-Nitroaniline | 0.301 | 0.332 | | 10.3 | |
| Acenaphthene | 1.108 | 1.174 | | 6.0 | 20.0 |
| Dibenzofuran | 1.829 | 1.939 | | 6.0 | |
| 2,4-Dinitrotoluene | 0.499 | 0.537 | | 7.6 | |
| Diethylphthalate | 1.680 | 1.758 | | 4.6 | |
| 4-Chlorophenyl-phenylether | 0.830 | 0.863 | | 4.0 | |
| Fluorene | 1.520 | 1.622 | | 6.7 | |
| 4-Nitroaniline | 0.314 | 0.357 | | 13.7 | |
| n-Nitrosodiphenylamine | 0.534 | 0.559 | | 4.7 | 20.0 |
| 2,4,6-Tribromophenol | 0.363 | 0.380 | | 4.7 | |
| 4-Bromophenyl-phenylether | 0.235 | 0.250 | | 6.4 | |
| Hexachlorobenzene | 0.269 | 0.281 | | 4.5 | |
| Atrazine | 0.238 | 0.251 | | 5.5 | |
| Phenanthrene | 1.046 | 1.113 | | 6.4 | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

| | | | | |
|---|---|---|---|---|
| Lab Name: | Alliance | Contract: | GENV01 | |
| Lab Code: | ACE | SDG No.: | Q3274 | |
| Instrument ID: | BNA_G | Calibration Date/Time: | 10/03/2025 | 13:33 |
| Lab File ID: | BG064485.D | Init. Calib. Date(s): | 10/02/2025 | 10/02/2025 |
| EPA Sample No.: | SSTDCCC040 | Init. Calib. Time(s): | 09:01 | 15:49 |

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Anthracene | 1.049 | 1.103 | | 5.1 | |
| Carbazole | 0.907 | 0.978 | | 7.8 | |
| Di-n-butylphthalate | 1.107 | 1.201 | | 8.5 | |
| Fluoranthene | 1.250 | 1.372 | | 9.8 | 20.0 |
| Pyrene | 1.298 | 1.371 | | 5.6 | |
| Terphenyl-d14 | 1.057 | 1.121 | | 6.1 | |
| Butylbenzylphthalate | 0.460 | 0.487 | | 5.9 | |
| 3,3-Dichlorobenzidine | 0.432 | 0.460 | | 6.5 | |
| Benzo(a)anthracene | 1.277 | 1.353 | | 6.0 | |
| Chrysene | 1.211 | 1.274 | | 5.2 | |
| Bis(2-ethylhexyl)phthalate | 0.649 | 0.681 | | 4.9 | |
| Di-n-octyl phthalate | 1.091 | 1.132 | | 3.8 | 20.0 |
| Benzo(b)fluoranthene | 1.138 | 1.230 | | 8.1 | |
| Benzo(k)fluoranthene | 1.146 | 1.207 | | 5.3 | |
| Benzo(a)pyrene | 1.049 | 1.132 | | 7.9 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.392 | 1.487 | | 6.8 | |
| Dibenzo(a,h)anthracene | 1.113 | 1.209 | | 8.6 | |
| Benzo(g,h,i)perylene | 1.082 | 1.155 | | 6.7 | |
| 1,2,4,5-Tetrachlorobenzene | 0.646 | 0.677 | | 4.8 | |
| 1,4-Dioxane | 0.427 | 0.434 | | 1.6 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BG064485.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.821 | 152 | 17500 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.612 | 136 | 78873 | 20.000 | ng | # 0.00 |
| 39) Acenaphthene-d10 | 14.448 | 164 | 59706 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.186 | 188 | 149943 | 20.000 | ng | # 0.00 |
| 76) Chrysene-d12 | 21.417 | 240 | 155011 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.390 | 264 | 163411 | 20.000 | ng | # 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.412 | 112 | 84607 | 89.475 | ng | 0.00 |
| 7) Phenol-d6 | 6.998 | 99 | 112125 | 88.237 | ng | 0.01 |
| 23) Nitrobenzene-d5 | 8.978 | 82 | 126148 | 85.999 | ng | 0.01 |
| 42) 2,4,6-Tribromophenol | 15.941 | 330 | 90661 | 83.770 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.073 | 172 | 342927 | 84.661 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.807 | 244 | 695125 | 84.866 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.326 | 88 | 15205 | 40.653 | ng | 97 |
| 3) Pyridine | 3.714 | 79 | 40499 | 40.289 | ng | 93 |
| 4) n-Nitrosodimethylamine | 3.632 | 42 | 30383 | 41.694 | ng | 95 |
| 6) Aniline | 7.151 | 93 | 71370 | 44.526 | ng | 97 |
| 8) 2-Chlorophenol | 7.392 | 128 | 49874 | 42.952 | ng | 94 |
| 9) Benzaldehyde | 6.969 | 77 | 52923m | 46.917 | ng | |
| 10) Phenol | 7.022 | 94 | 59288 | 44.228 | ng | 94 |
| 11) bis(2-Chloroethyl)ether | 7.251 | 93 | 38914 | 42.866 | ng | 97 |
| 12) 1,3-Dichlorobenzene | 7.715 | 146 | 56603 | 44.562 | ng | 97 |
| 13) 1,4-Dichlorobenzene | 7.856 | 146 | 56867 | 44.608 | ng | 92 |
| 14) 1,2-Dichlorobenzene | 8.173 | 146 | 54267 | 43.192 | ng | 97 |
| 15) Benzyl Alcohol | 8.062 | 79 | 52407 | 44.783 | ng | 87 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.344 | 45 | 64111 | 43.812 | ng | 95 |
| 17) 2-Methylphenol | 8.267 | 107 | 42368 | 43.648 | ng | 97 |
| 18) Hexachloroethane | 8.902 | 117 | 21725 | 43.174 | ng | 89 |
| 19) n-Nitroso-di-n-propyla... | 8.632 | 70 | 37586 | 44.227 | ng | # 93 |
| 20) 3+4-Methylphenols | 8.596 | 107 | 59638 | 44.028 | ng | 95 |
| 22) Acetophenone | 8.643 | 105 | 82461 | 43.179 | ng | # 95 |
| 24) Nitrobenzene | 9.019 | 77 | 61720 | 42.194 | ng | 100 |
| 25) Isophorone | 9.542 | 82 | 111424 | 41.931 | ng | 97 |
| 26) 2-Nitrophenol | 9.724 | 139 | 30728 | 42.207 | ng | 94 |
| 27) 2,4-Dimethylphenol | 9.789 | 122 | 47542 | 42.755 | ng | 92 |
| 28) bis(2-Chloroethoxy)met... | 10.024 | 93 | 56834 | 41.958 | ng | 97 |
| 29) 2,4-Dichlorophenol | 10.259 | 162 | 54916 | 42.708 | ng | 95 |
| 30) 1,2,4-Trichlorobenzene | 10.476 | 180 | 60436 | 43.106 | ng | 98 |
| 31) Naphthalene | 10.659 | 128 | 172399 | 42.446 | ng | 97 |
| 32) Benzoic acid | 9.948 | 122 | 38521m | 45.121 | ng | |
| 33) 4-Chloroaniline | 10.764 | 127 | 66293 | 42.535 | ng | 97 |
| 34) Hexachlorobutadiene | 10.946 | 225 | 49713 | 41.403 | ng | 98 |
| 35) Caprolactam | 11.546 | 113 | 19174 | 43.558 | ng | 95 |
| 36) 4-Chloro-3-methylphenol | 11.898 | 107 | 67525 | 43.183 | ng | 95 |
| 37) 2-Methylnaphthalene | 12.268 | 142 | 129764 | 41.621 | ng | 95 |
| 38) 1-Methylnaphthalene | 12.492 | 142 | 126547m | 40.706 | ng | |
| 40) 1,2,4,5-Tetrachloroben... | 12.639 | 216 | 80854 | 41.941 | ng | 98 |
| 41) Hexachlorocyclopentadiene | 12.627 | 237 | 43971 | 43.604 | ng | 93 |
| 43) 2,4,6-Trichlorophenol | 12.885 | 196 | 52168 | 42.332 | ng | 95 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.956 | 196 | 61045 | 44.369 | ng | | 97 |
| 46) 1,1'-Biphenyl | 13.285 | 154 | 178945 | 41.671 | ng | | 99 |
| 47) 2-Chloronaphthalene | 13.326 | 162 | 137587 | 42.913 | ng | | 99 |
| 48) 2-Nitroaniline | 13.526 | 65 | 46985 | 42.937 | ng | | 93 |
| 49) Acenaphthylene | 14.172 | 152 | 202613 | 42.571 | ng | | 100 |
| 50) Dimethylphthalate | 13.908 | 163 | 194926 | 41.685 | ng | # | 96 |
| 51) 2,6-Dinitrotoluene | 14.025 | 165 | 42021 | 43.138 | ng | | 89 |
| 52) Acenaphthene | 14.513 | 154 | 140193 | 42.398 | ng | | 98 |
| 53) 3-Nitroaniline | 14.354 | 138 | 39644 | 44.129 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 14.560 | 184 | 26564 | 37.608 | ng | # | 86 |
| 55) Dibenzofuran | 14.848 | 168 | 231596 | 42.419 | ng | | 99 |
| 56) 4-Nitrophenol | 14.666 | 139 | 32349 | 45.736 | ng | # | 81 |
| 57) 2,4-Dinitrotoluene | 14.813 | 165 | 64144 | 43.076 | ng | # | 98 |
| 58) Fluorene | 15.500 | 166 | 193686 | 42.672 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.077 | 232 | 59370 | 42.283 | ng | | 96 |
| 60) Diethylphthalate | 15.277 | 149 | 209905 | 41.844 | ng | | 97 |
| 61) 4-Chlorophenyl-phenyle... | 15.494 | 204 | 102993 | 41.563 | ng | | 98 |
| 62) 4-Nitroaniline | 15.518 | 138 | 42631 | 45.530 | ng | | 95 |
| 63) Azobenzene | 15.782 | 77 | 162804 | 41.906 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 15.576 | 198 | 43953 | 42.100 | ng | | 96 |
| 66) n-Nitrosodiphenylamine | 15.706 | 169 | 167596 | 41.856 | ng | | 96 |
| 67) 4-Bromophenyl-phenylether | 16.387 | 248 | 75062 | 42.541 | ng | | 89 |
| 68) Hexachlorobenzene | 16.499 | 284 | 84254 | 41.729 | ng | | 97 |
| 69) Atrazine | 16.657 | 200 | 75359 | 42.302 | ng | | 96 |
| 70) Pentachlorophenol | 16.845 | 266 | 50468 | 42.750 | ng | | 99 |
| 71) Phenanthrene | 17.233 | 178 | 333729 | 42.560 | ng | | 97 |
| 72) Anthracene | 17.321 | 178 | 330750 | 42.045 | ng | | 97 |
| 73) Carbazole | 17.592 | 167 | 293389 | 43.148 | ng | | 99 |
| 74) Di-n-butylphthalate | 18.156 | 149 | 360262 | 43.402 | ng | | 99 |
| 75) Fluoranthene | 19.243 | 202 | 411443 | 43.921 | ng | | 99 |
| 77) Benzidine | 19.425 | 184 | 208747 | 54.118 | ng | | 99 |
| 78) Pyrene | 19.601 | 202 | 425142 | 42.262 | ng | | 99 |
| 80) Butylbenzylphthalate | 20.500 | 149 | 151094 | 42.370 | ng | | 98 |
| 81) Benzo(a)anthracene | 21.393 | 228 | 419600 | 42.394 | ng | | 97 |
| 82) 3,3'-Dichlorobenzidine | 21.317 | 252 | 142654 | 42.584 | ng | # | 96 |
| 83) Chrysene | 21.458 | 228 | 395068 | 42.089 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 21.317 | 149 | 211151 | 41.966 | ng | | 97 |
| 85) Di-n-octyl phthalate | 22.445 | 149 | 351045 | 41.513 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 27.744 | 276 | 486059 | 42.733 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 23.455 | 252 | 401845 | 43.226 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 23.514 | 252 | 394575 | 42.142 | ng | | 97 |
| 90) Benzo(a)pyrene | 24.254 | 252 | 369840 | 43.166 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 27.797 | 278 | 395048 | 43.430 | ng | # | 97 |
| 92) Benzo(g,h,i)perylene | 28.790 | 276 | 377605 | 42.717 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **BG064485.D**

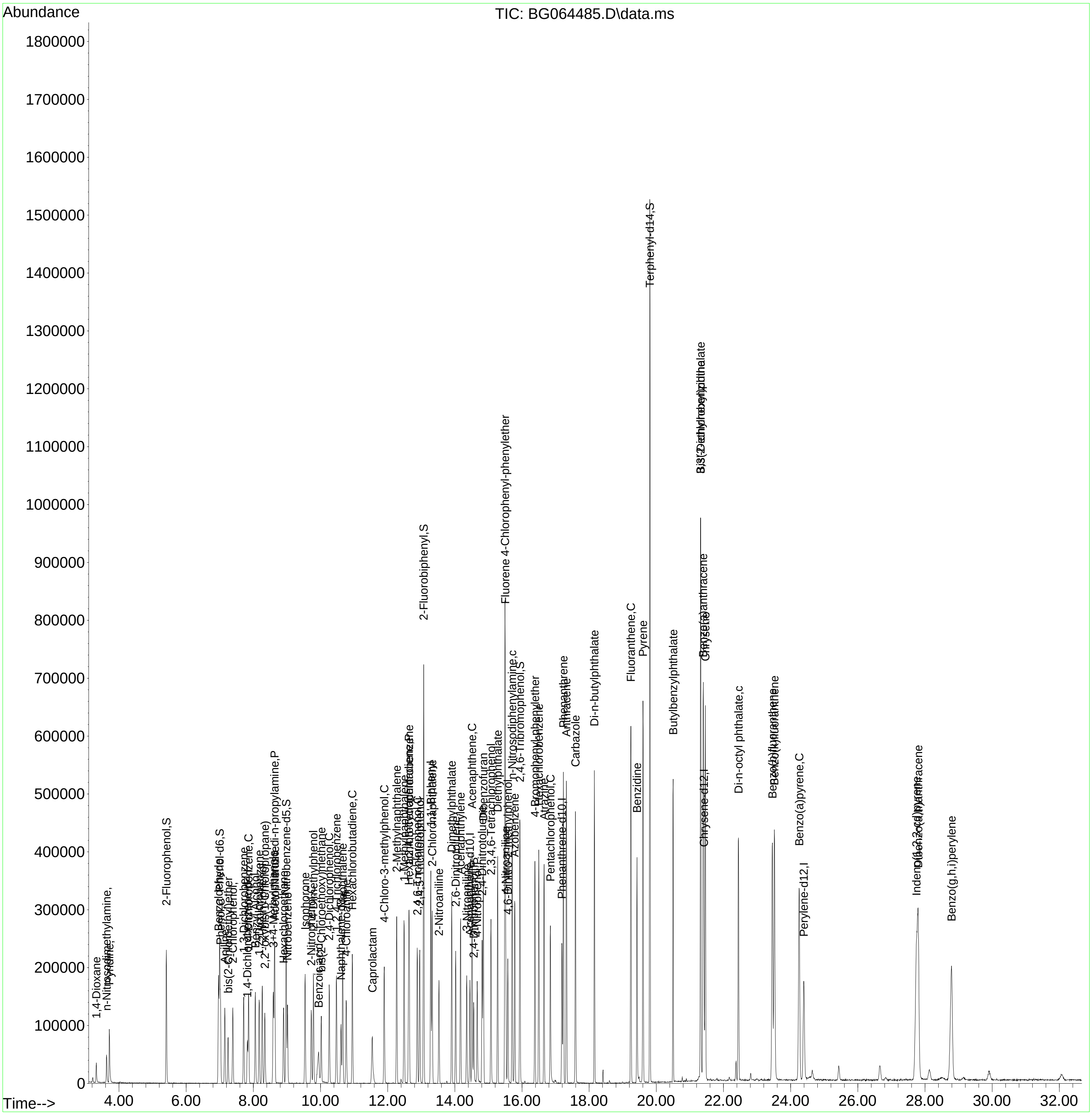
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

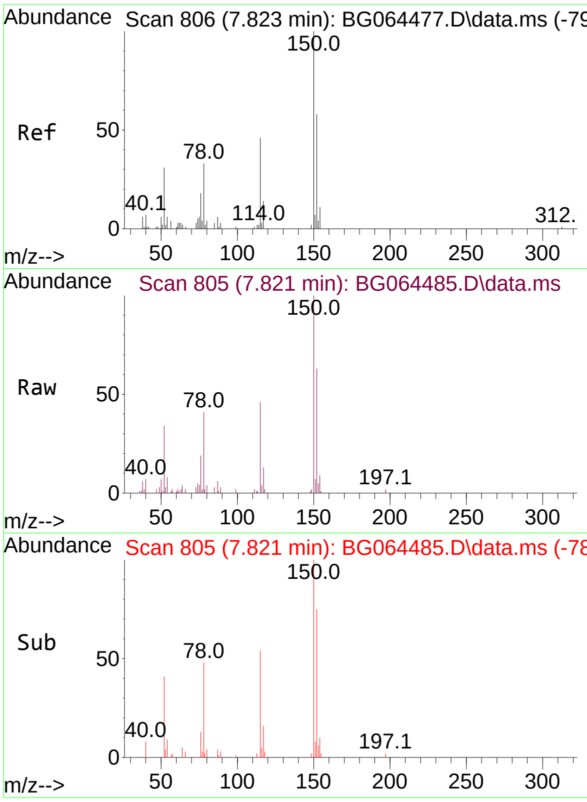


Sample Results: **BG064485.D**

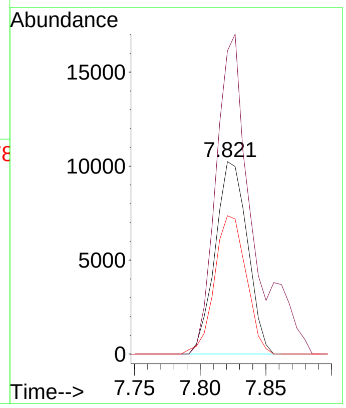
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

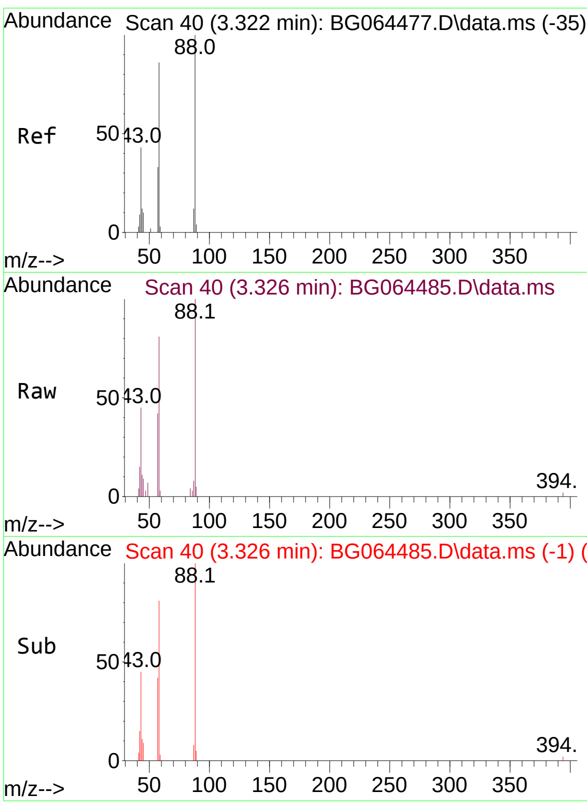
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

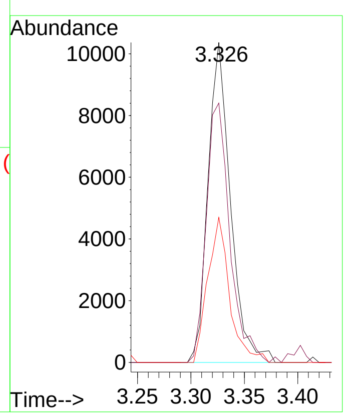



```
#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:   7.821 min  Scan# 8
Delta R.T.  0.001 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:152 Resp:   1750
Ion  Ratio  Lower  Upper
152  100
150  157.6  138.6  207.8
115   71.9   63.4   95.2
```



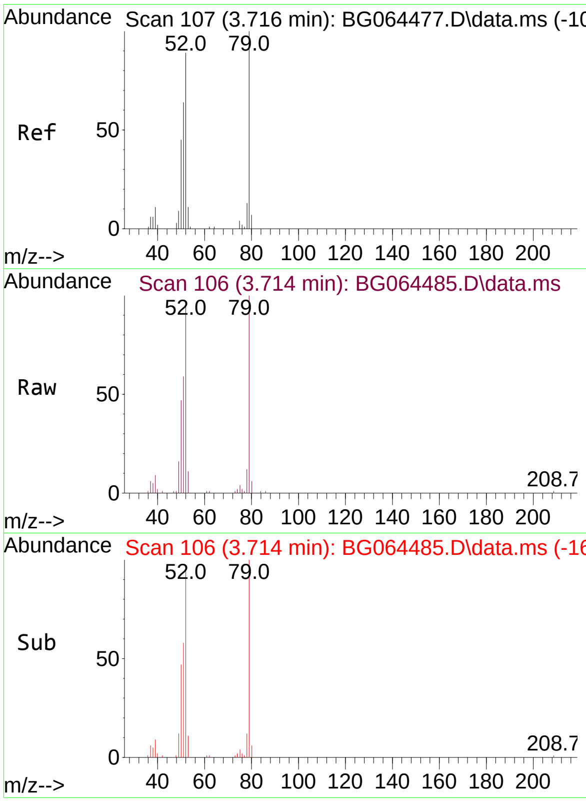

```
#2
1,4-Dioxane
Concen:   40.653 ng
RT:   3.326 min  Scan# 40
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion: 88 Resp:   15205
Ion  Ratio  Lower  Upper
 88  100
 58   84.7   69.8  104.6
 43   44.1   37.4   56.0
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

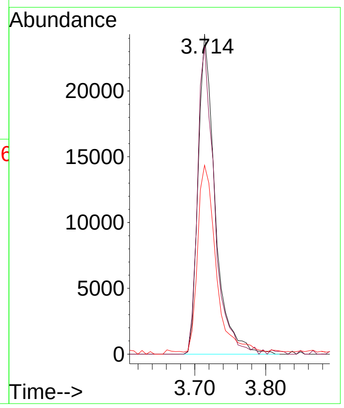
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

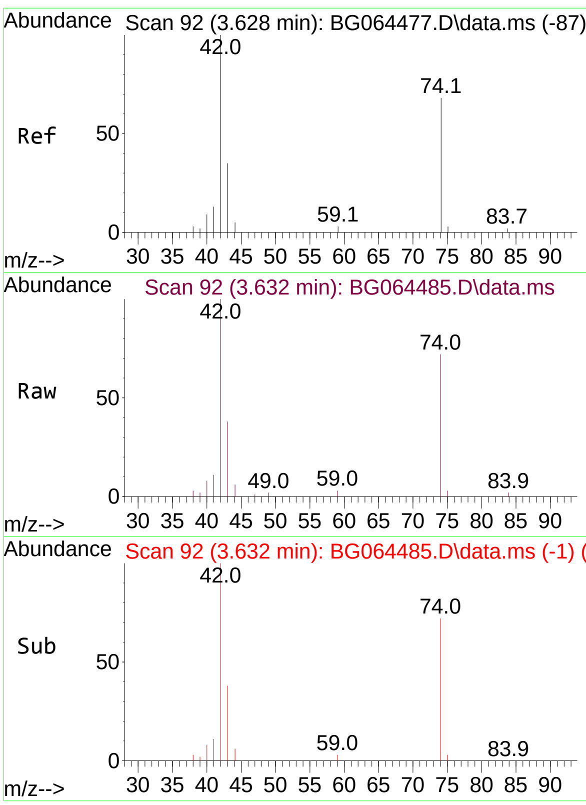



#3
Pyridine
Concen: 40.289 ng
RT: 3.714 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 79 Resp: 4049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 96.3 | 71.0 | 106.4 |
| 51 | 59.0 | 51.0 | 76.6 |

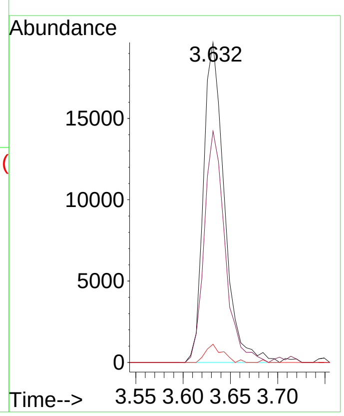



#4
n-Nitrosodimethylamine
Concen: 41.694 ng
RT: 3.632 min Scan# 92
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

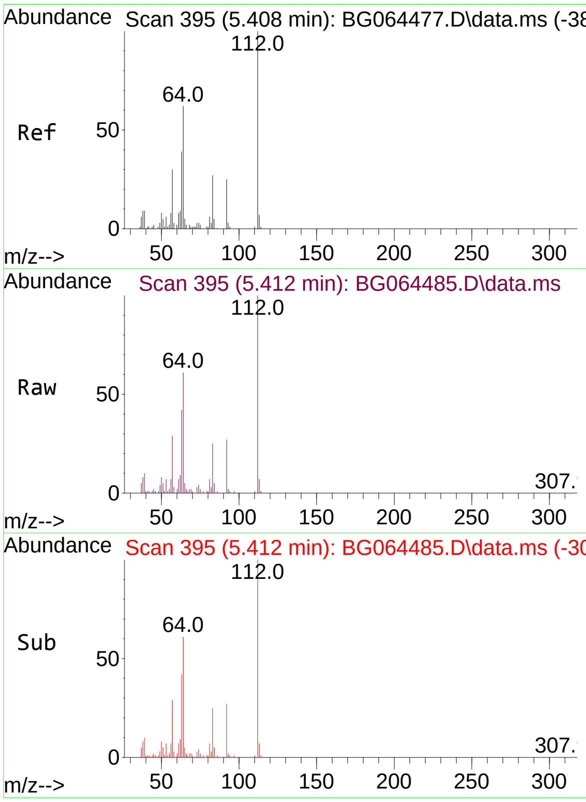
Tgt Ion: 42 Resp: 30383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 72.3 | 54.2 | 81.4 |
| 44 | 5.7 | 4.2 | 6.2 |

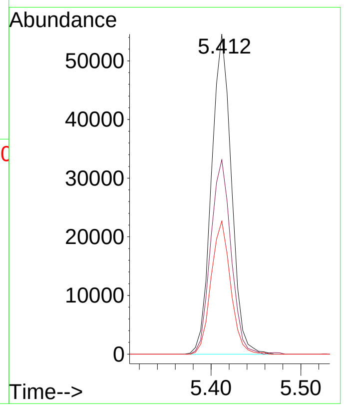


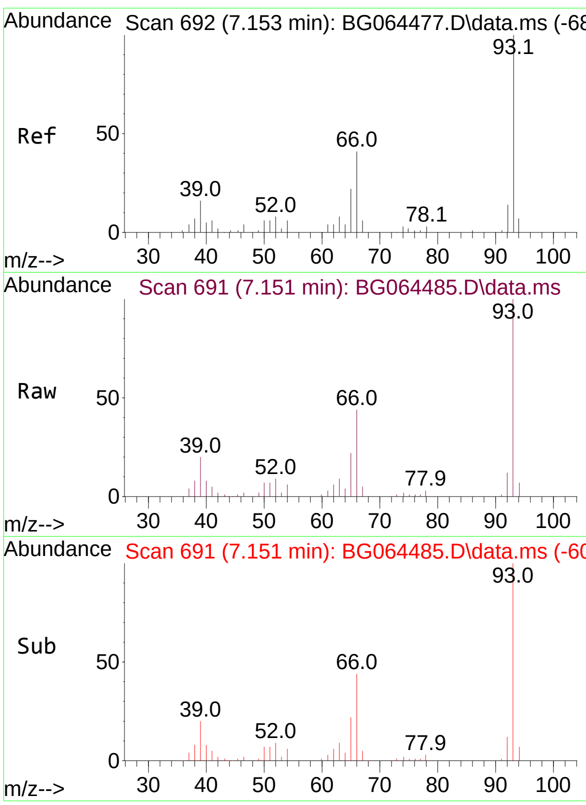
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

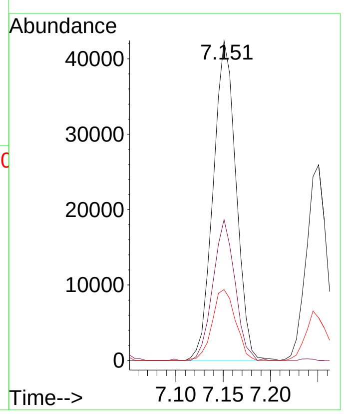



```
#5
2-Fluorophenol
Concen:   89.475 ng
RT:   5.412 min  Scan# 39
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025   13:33

Tgt Ion:112 Resp:   84607
Ion  Ratio   Lower   Upper
112  100
 64   60.7    49.8    74.8
 63   41.6    31.3    46.9
```



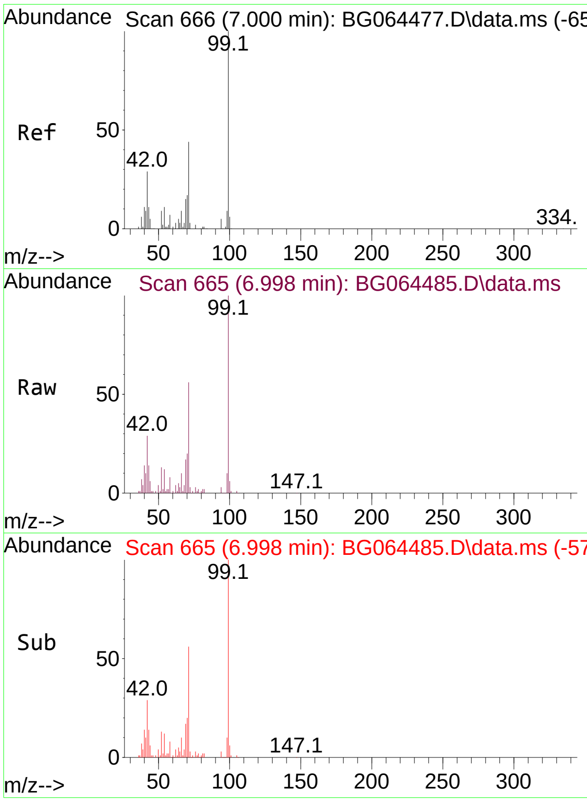

```
#6
Aniline
Concen:   44.526 ng
RT:   7.151 min  Scan# 691
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025   13:33

Tgt Ion: 93 Resp:   71370
Ion  Ratio   Lower   Upper
 93  100
 66   44.0    33.0    49.4
 65   22.1    17.5    26.3
```



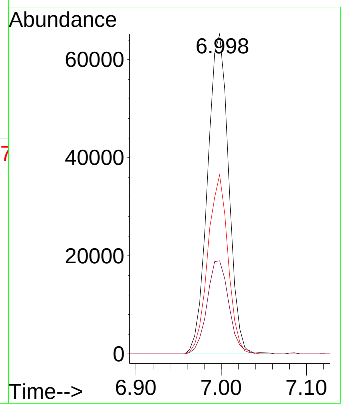
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

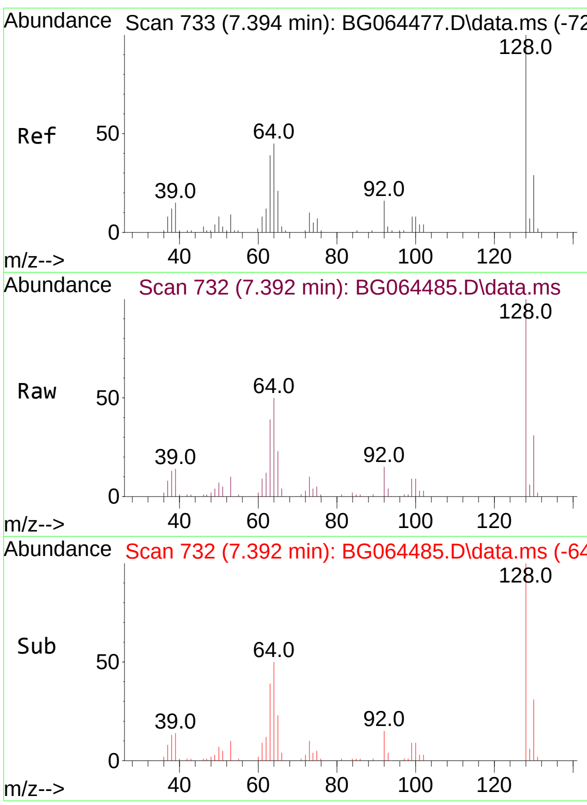
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

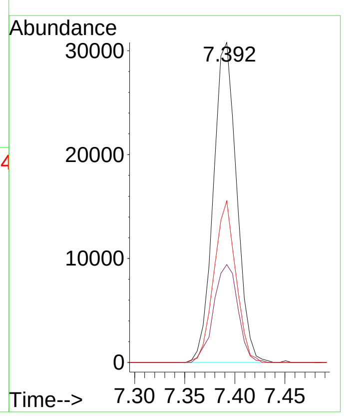


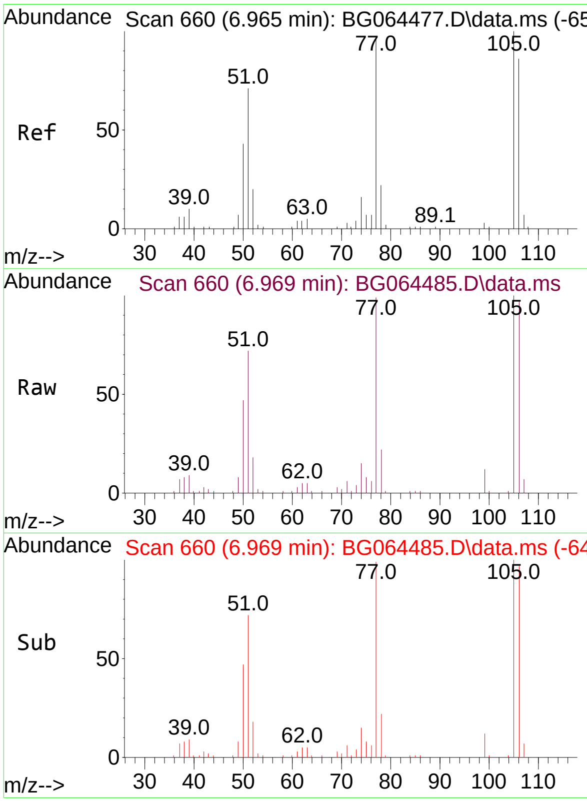

```
#7
Phenol-d6
Concen:   88.237 ng
RT:   6.998 min  Scan# 66
Delta R.T.  0.012 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion: 99 Resp:  112125
Ion  Ratio  Lower  Upper
 99  100
 42   29.1   22.9   34.3
 71   56.0   35.4   53.2#
```




```
#8
2-Chlorophenol
Concen:   42.952 ng
RT:   7.392 min  Scan# 732
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:128 Resp:   49874
Ion  Ratio  Lower  Upper
128  100
130   30.6    9.2   49.2
 64   50.5   25.5   65.5
```





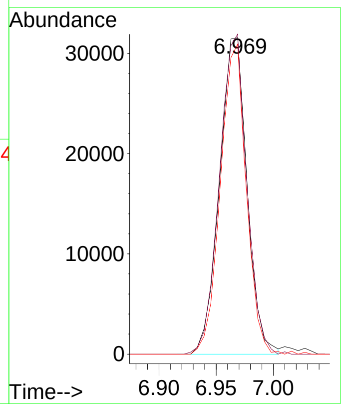

#9
Benzaldehyde
Concen: 46.917 ng m
RT: 6.969 min Scan# 66
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

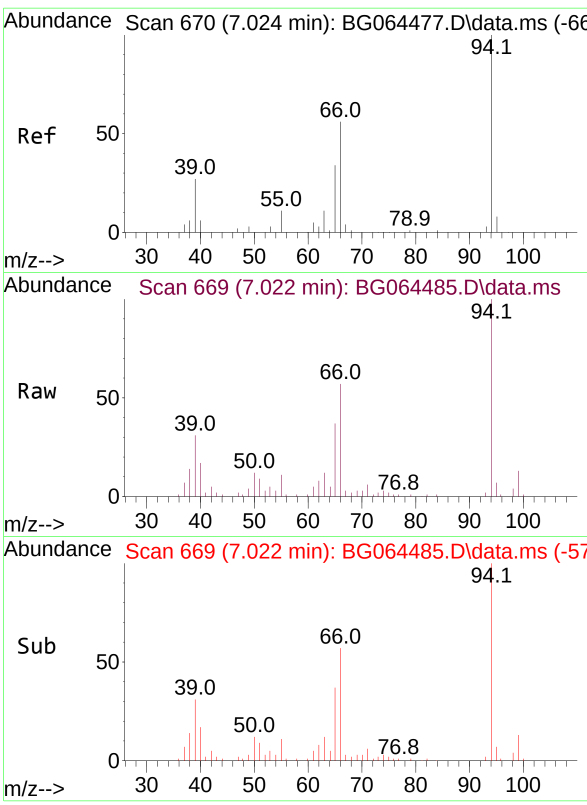
Tgt Ion: 77 Resp: 5292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 101.1 | 83.7 | 123.7 |
| 106 | 97.9 | 69.4 | 109.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

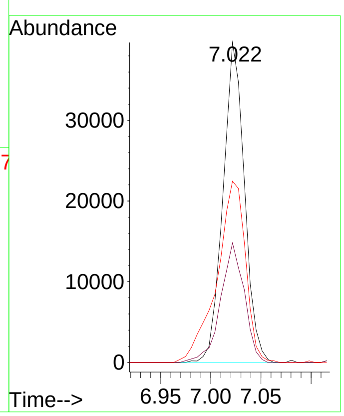



#10
Phenol
Concen: 44.228 ng
RT: 7.022 min Scan# 669
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 94 Resp: 59288

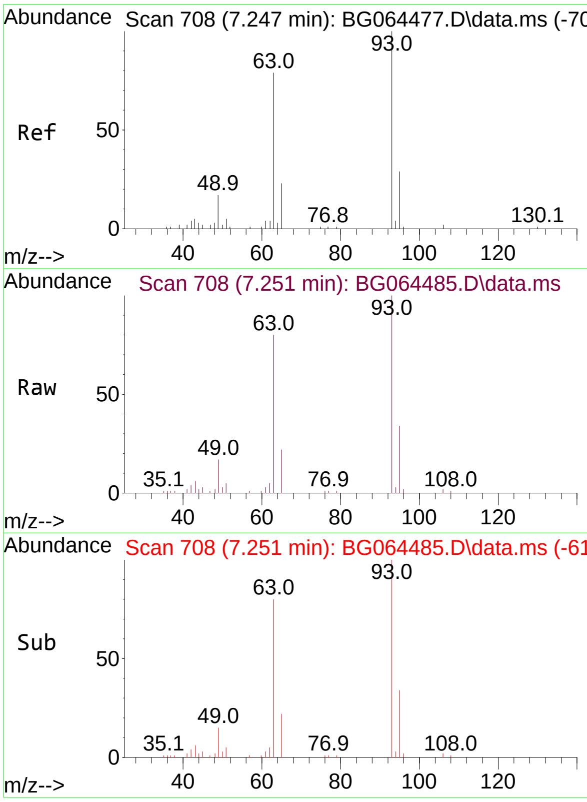
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 37.4 | 14.8 | 54.8 |
| 66 | 56.6 | 41.4 | 81.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

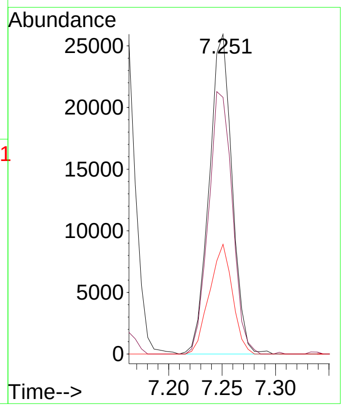
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

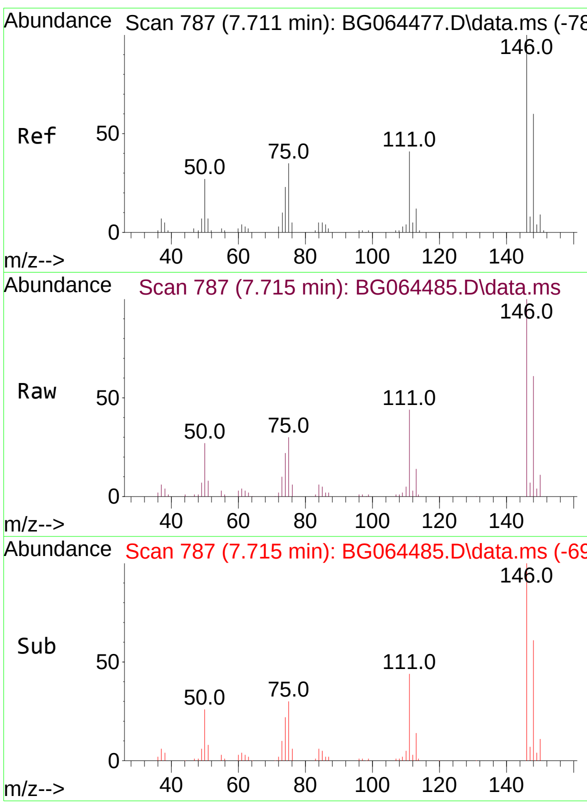



#11
bis(2-Chloroethyl)ether
Concen: 42.866 ng
RT: 7.251 min Scan# 70
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 93 Resp: 38914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 80.2 | 59.5 | 99.5 |
| 95 | 34.3 | 8.8 | 48.8 |

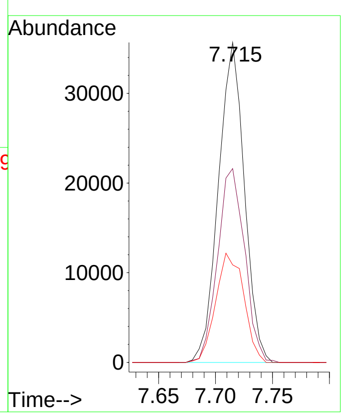



#12
1,3-Dichlorobenzene
Concen: 44.562 ng
RT: 7.715 min Scan# 787
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:146 Resp: 56603

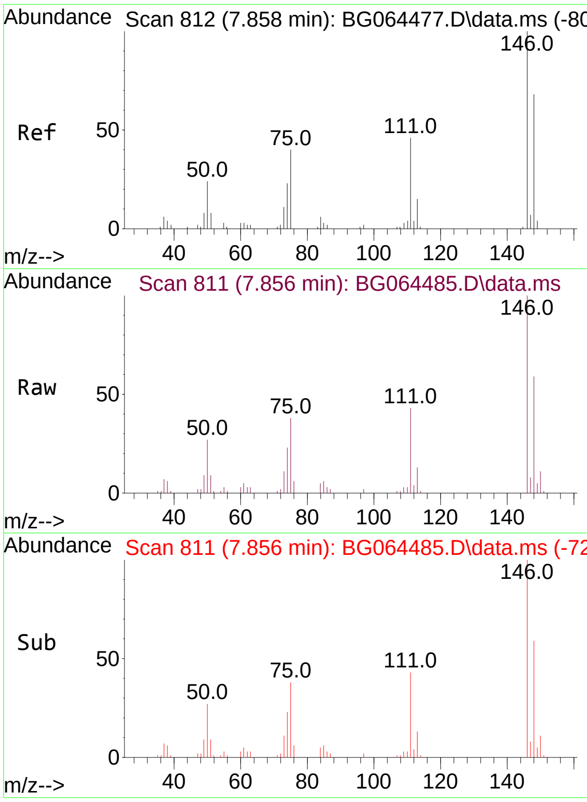
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 60.6 | 48.4 | 72.6 |
| 75 | 30.5 | 28.3 | 42.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

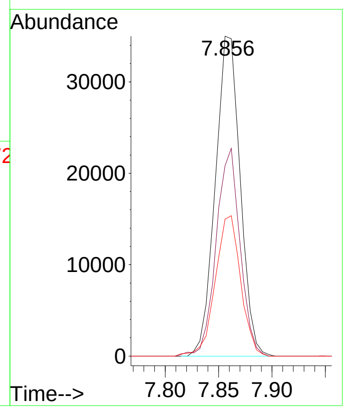
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

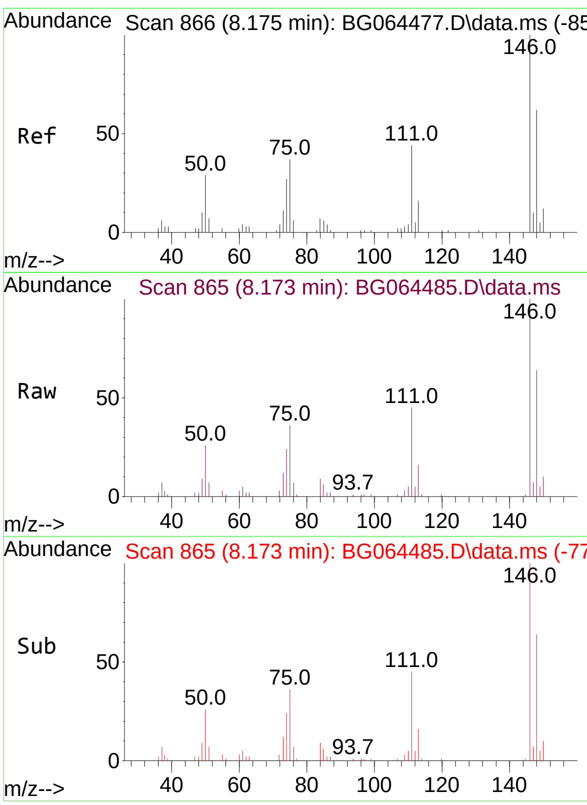



#13
1,4-Dichlorobenzene
Concen: 44.608 ng
RT: 7.856 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:146 Resp: 5686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 59.5 | 54.4 | 81.6 |
| 111 | 42.8 | 36.5 | 54.7 |

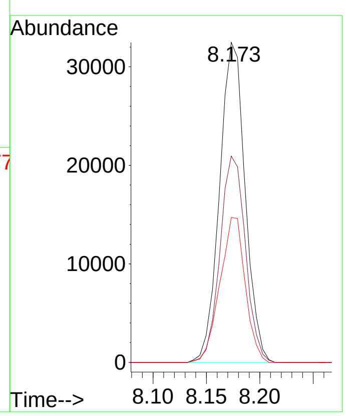


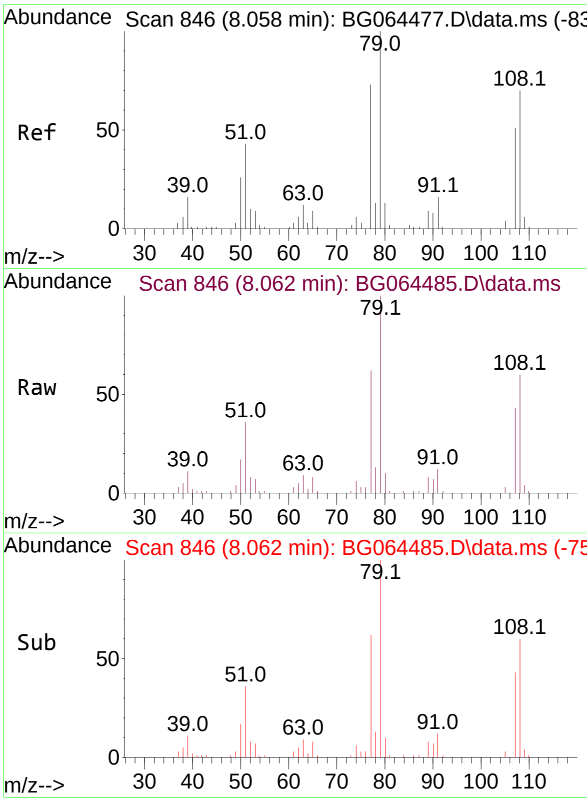




#14
1,2-Dichlorobenzene
Concen: 43.192 ng
RT: 8.173 min Scan# 865
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:146 Resp: 54267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 50.0 | 75.0 |
| 111 | 45.3 | 35.0 | 52.4 |






#15
Benzyl Alcohol
Concen: 44.783 ng
RT: 8.062 min Scan# 84
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

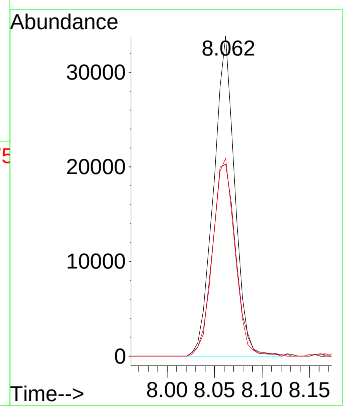
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

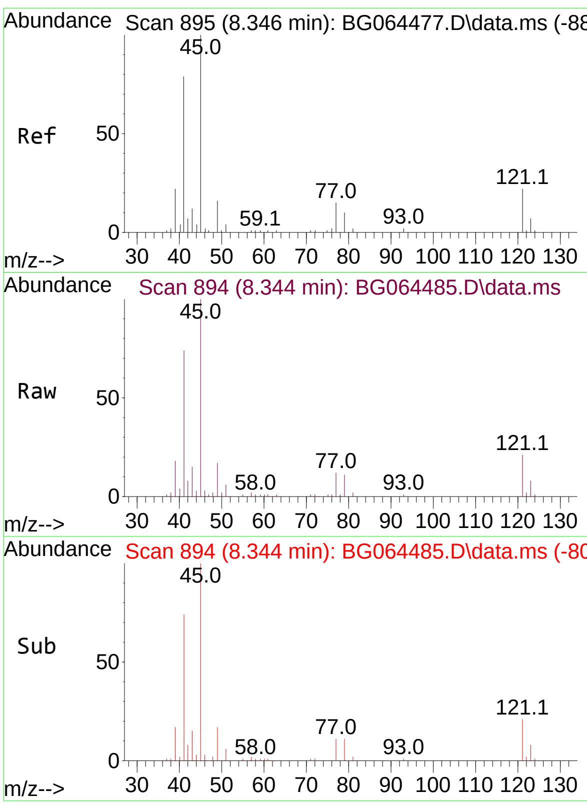
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Tgt Ion: 79 Resp: 5240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 60.0 | 56.4 | 84.6 |
| 77 | 61.8 | 58.3 | 87.5 |

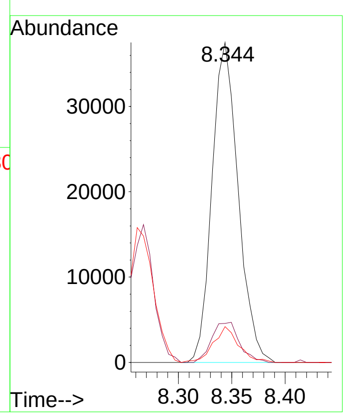



#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.812 ng
RT: 8.344 min Scan# 894
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 45 Resp: 64111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 12.2 | 0.0 | 35.6 |
| 79 | 11.2 | 0.0 | 30.7 |

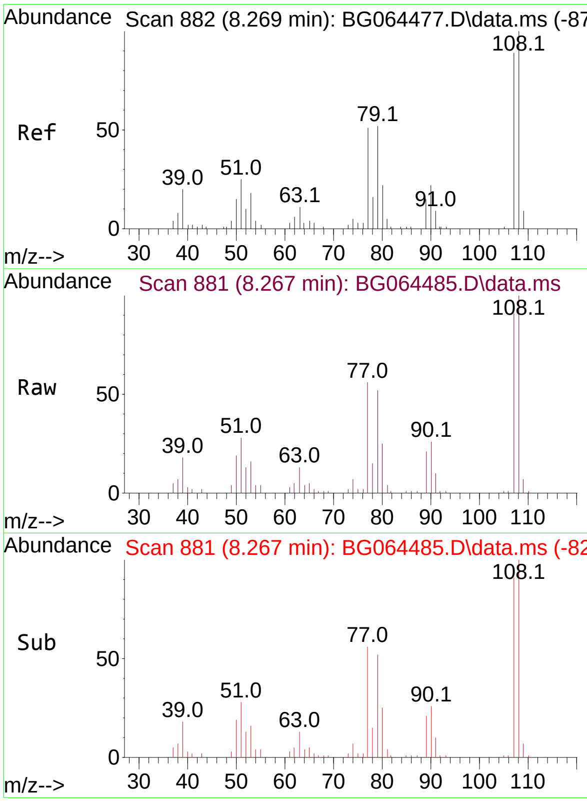


Sample Results: **BG064485.D**

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

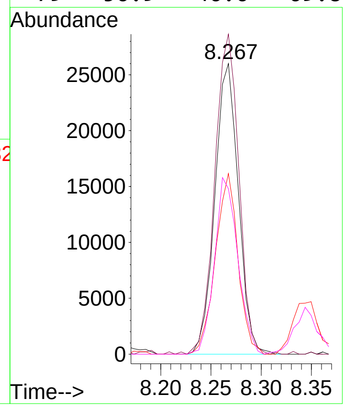
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

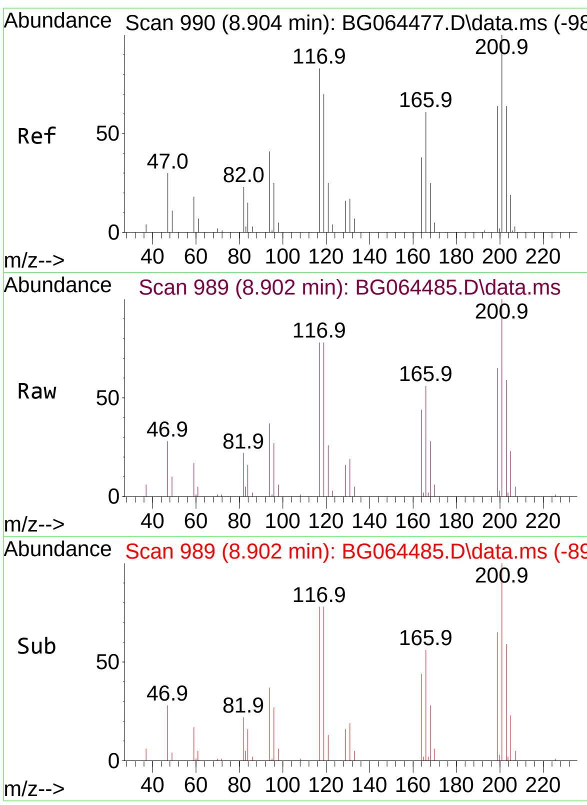



#17
2-Methylphenol
Concen: 43.648 ng
RT: 8.267 min Scan# 88
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:107 Resp: 42368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 110.2 | 90.3 | 135.5 |
| 77 | 62.2 | 46.0 | 69.0 |
| 79 | 56.9 | 46.6 | 69.8 |

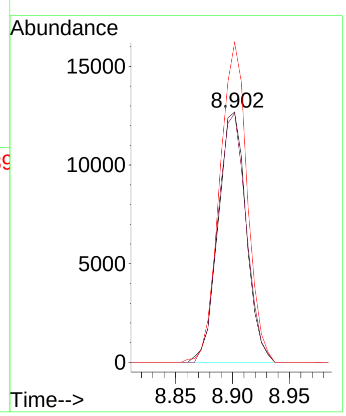


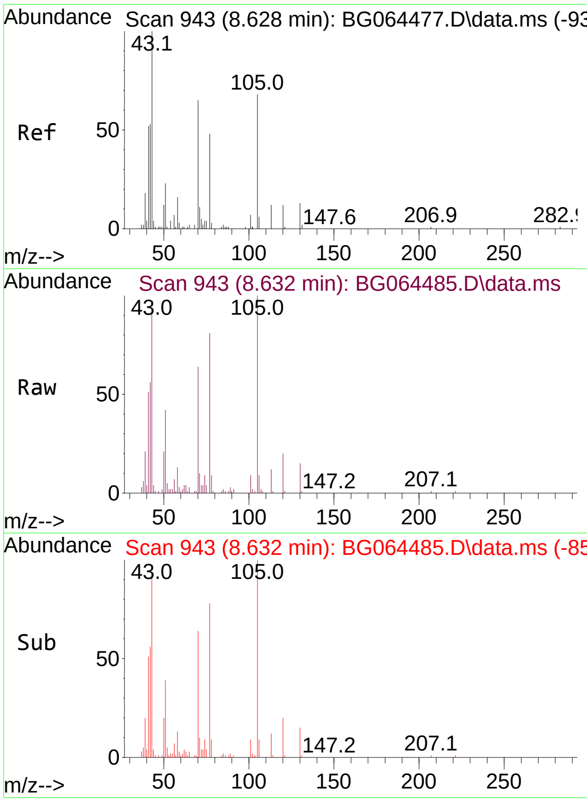

#18
Hexachloroethane
Concen: 43.174 ng
RT: 8.902 min Scan# 989
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:117 Resp: 21725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.5 | 67.4 | 101.0 |
| 201 | 127.8 | 95.9 | 143.9 |



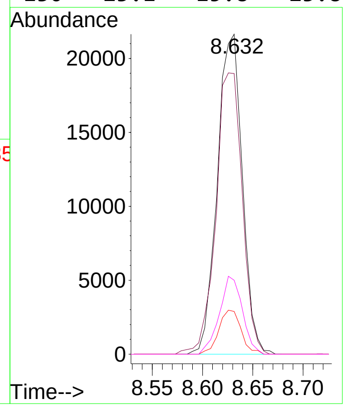
Sample Results: **BG064485.D**




#19
n-Nitroso-di-n-propylamine
Concen: 44.227 ng
RT: 8.632 min Scan# 94
Delta R.T. 0.018 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

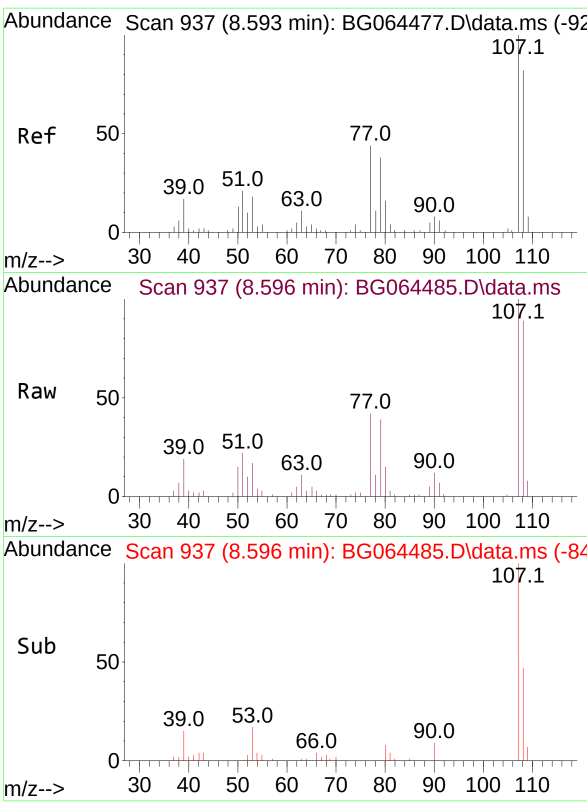
Tgt Ion: 70 Resp: 37586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 87.7 | 64.9 | 97.3 |
| 101 | 13.3 | 8.7 | 13.1# |
| 130 | 23.1 | 15.8 | 23.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

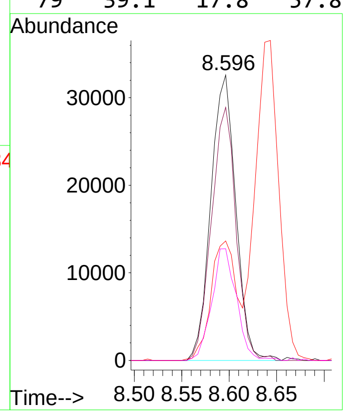
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#20
3+4-Methylphenols
Concen: 44.028 ng
RT: 8.596 min Scan# 937
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

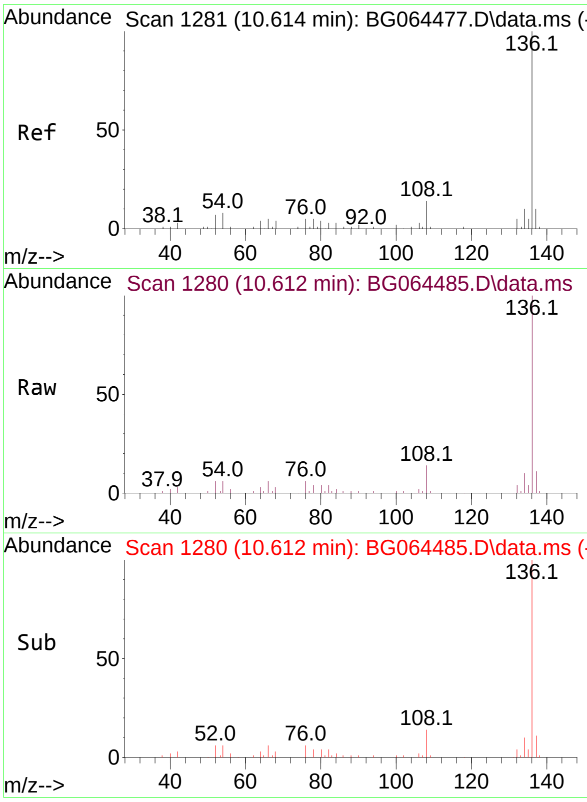
Tgt Ion:107 Resp: 59638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.7 | 62.1 | 102.1 |
| 77 | 41.8 | 23.5 | 63.5 |
| 79 | 39.1 | 17.8 | 57.8 |

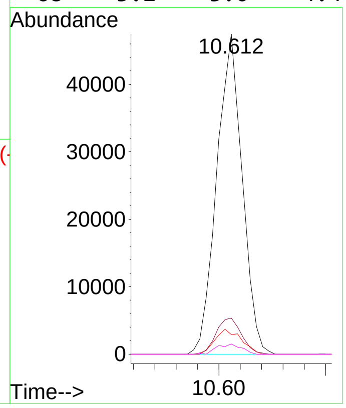


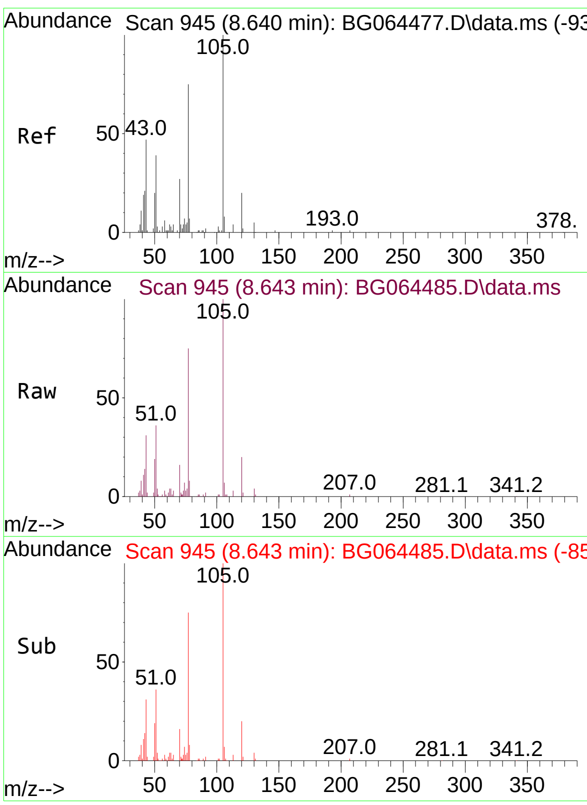
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

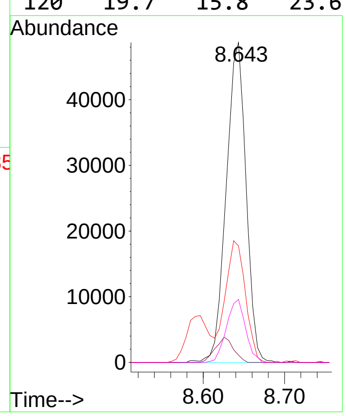



```
#21
Naphthalene-d8
Concen:   20.000 ng
RT:  10.612 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:136 Resp:   7887
Ion  Ratio  Lower  Upper
136  100
137   11.3    8.3   12.5
 54    6.1    6.2    9.4#
 68    3.2    3.0    4.4
```



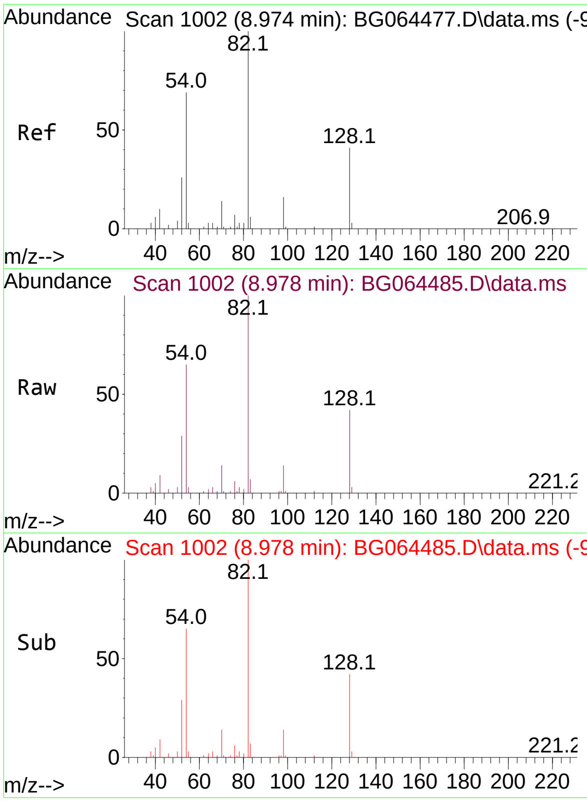

```
#22
Acetophenone
Concen:   43.179 ng
RT:   8.643 min  Scan# 945
Delta R.T.  0.012 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:105 Resp:   82461
Ion  Ratio  Lower  Upper
105  100
 71    2.3    2.8    4.2#
 51   36.4   33.0   49.4
120   19.7   15.8   23.6
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

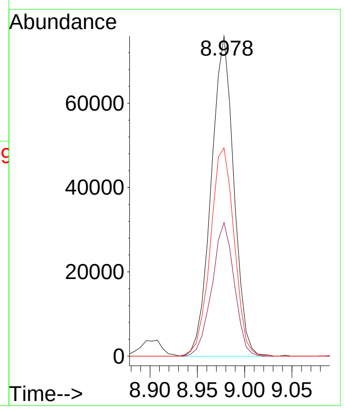
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

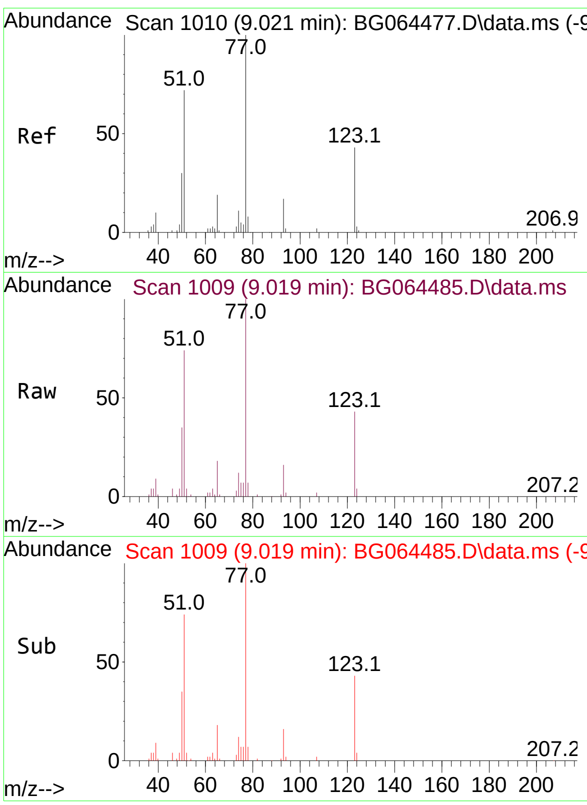



#23
Nitrobenzene-d5
Concen: 85.999 ng
RT: 8.978 min Scan# 1
Delta R.T. 0.012 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 82 Resp: 126148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.7 | 33.1 | 49.7 |
| 54 | 65.1 | 55.4 | 83.2 |

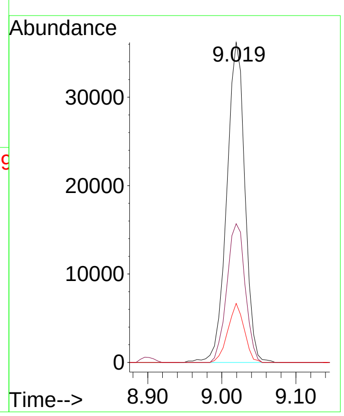



#24
Nitrobenzene
Concen: 42.194 ng
RT: 9.019 min Scan# 1009
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 77 Resp: 61720

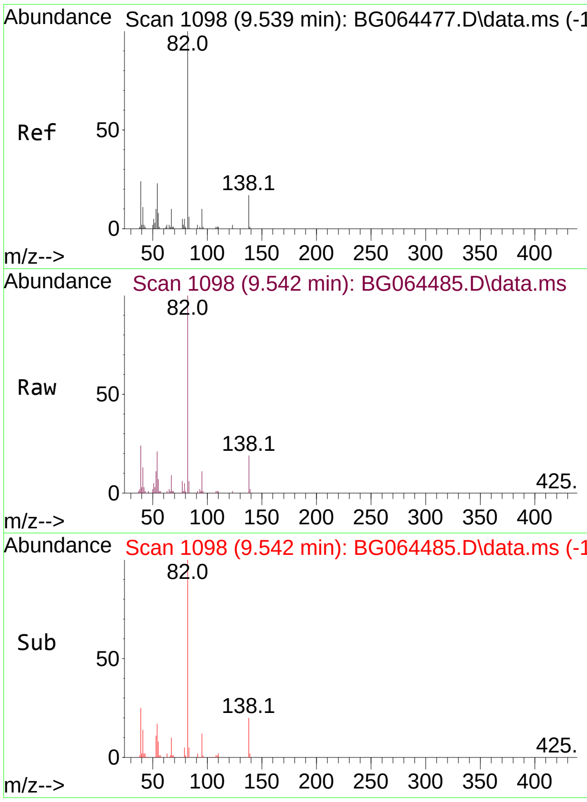
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.3 | 34.4 | 51.6 |
| 65 | 18.4 | 14.8 | 22.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

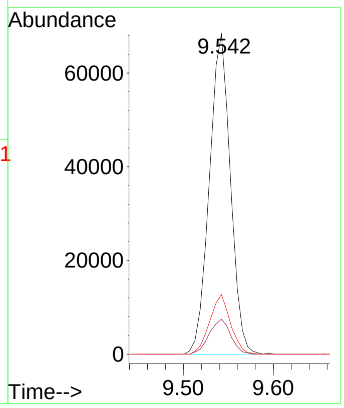
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

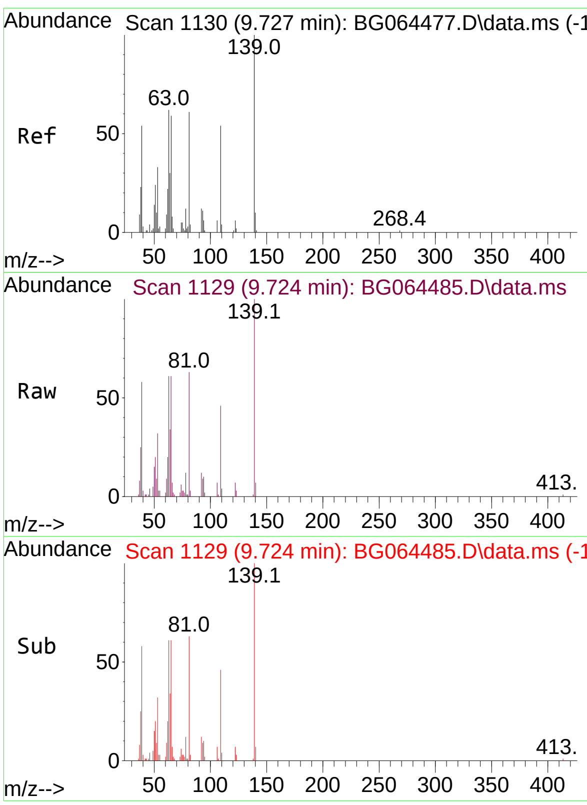



#25
Isophorone
Concen: 41.931 ng
RT: 9.542 min Scan# 10
Delta R.T. 0.012 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 82 Resp: 11142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 10.9 | 7.8 | 11.8 |
| 138 | 18.6 | 13.8 | 20.6 |

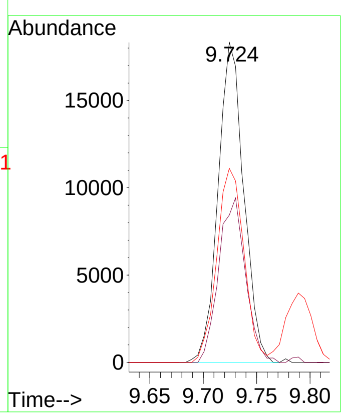



#26
2-Nitrophenol
Concen: 42.207 ng
RT: 9.724 min Scan# 1129
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:139 Resp: 30728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 46.0 | 43.0 | 64.6 |
| 65 | 60.6 | 47.4 | 71.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
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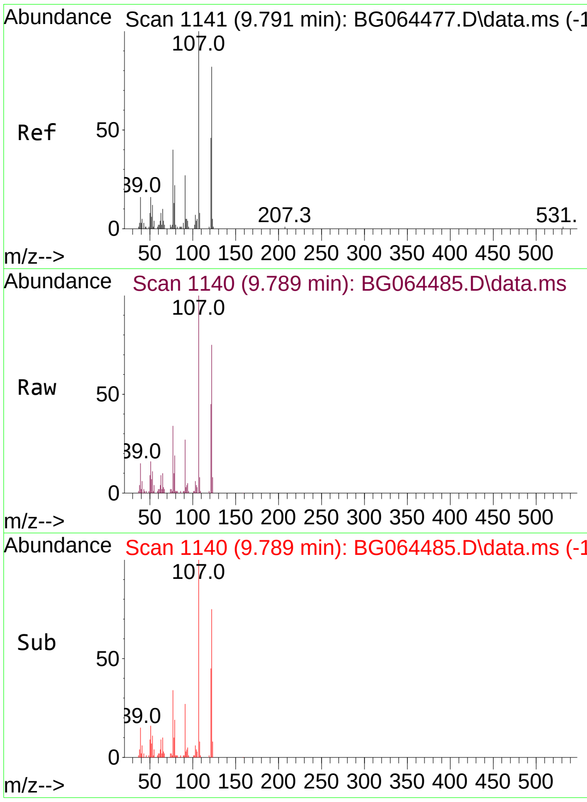
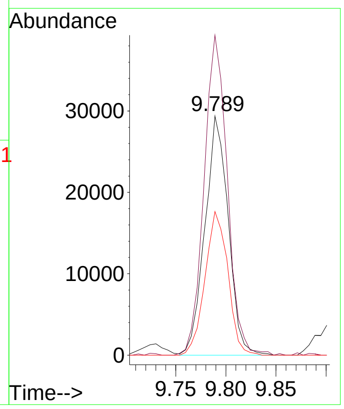
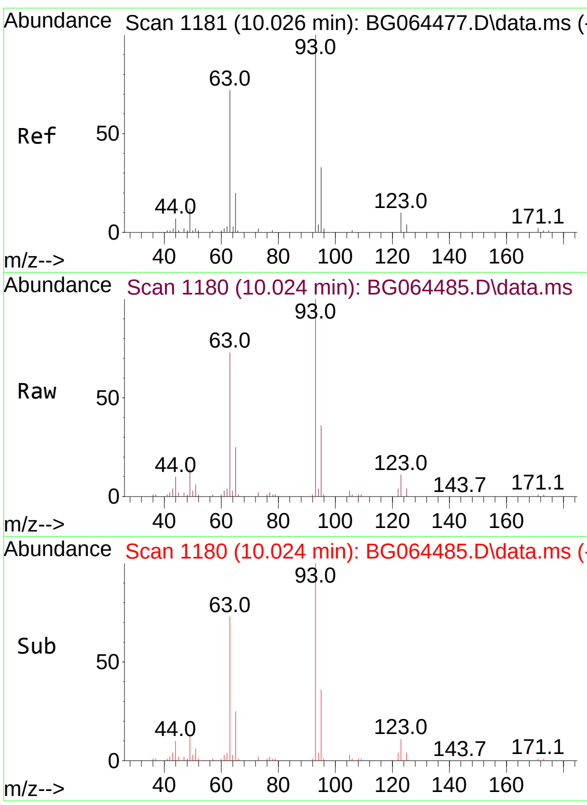
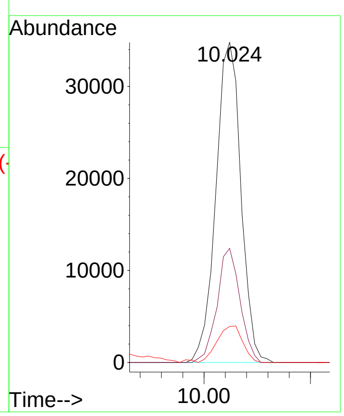



```
#27
2,4-Dimethylphenol
Concen:   42.755 ng
RT:   9.789 min  Scan# 11
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:122 Resp:   47542
Ion  Ratio  Lower  Upper
122  100
107  133.8   98.3  147.5
121   60.1   44.7   67.1
```




```
#28
bis(2-Chloroethoxy)methane
Concen:   41.958 ng
RT:  10.024 min  Scan# 1180
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion: 93 Resp:   56834
Ion  Ratio  Lower  Upper
 93  100
 95   35.6   26.5   39.7
123   11.2    8.9   13.3
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
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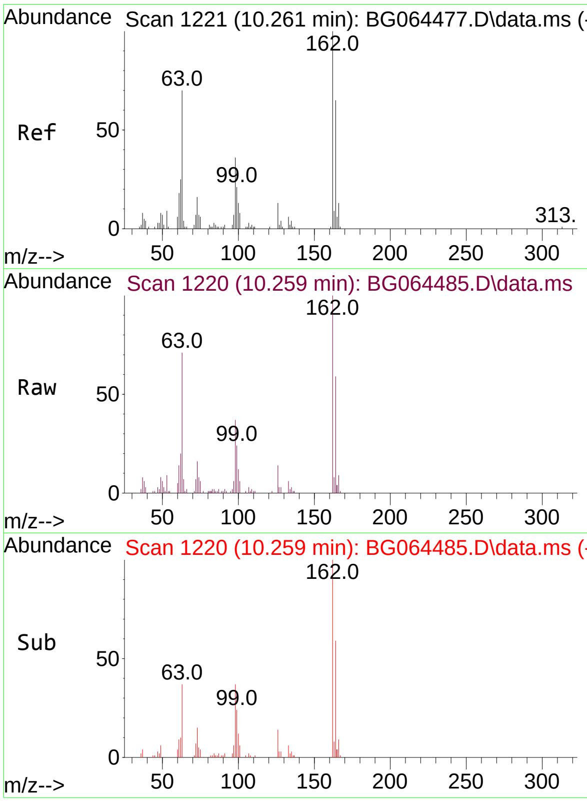
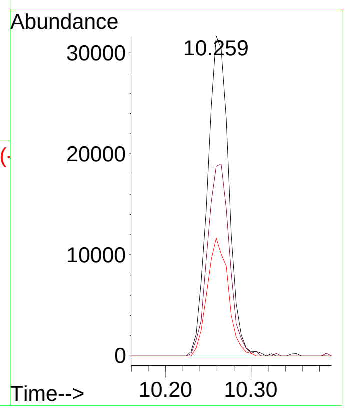
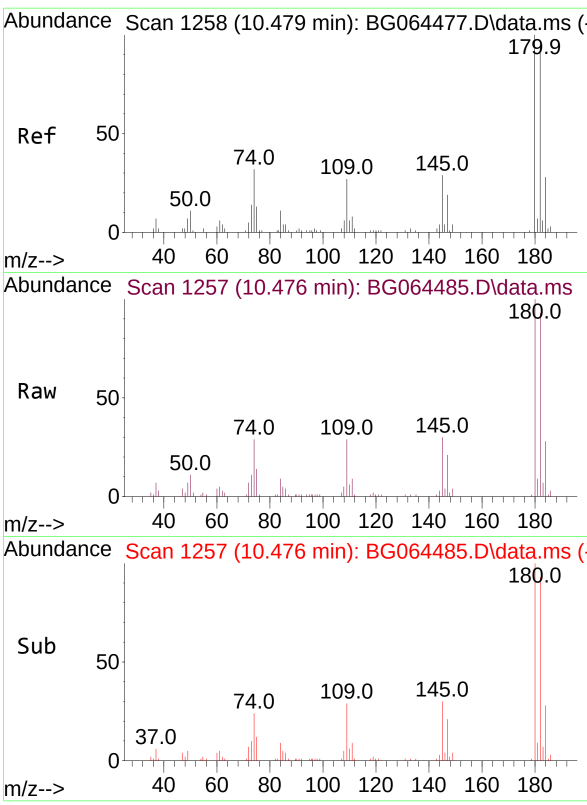



#29
2,4-Dichlorophenol
Concen: 42.708 ng
RT: 10.259 min Scan# 1220
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:162 Resp: 54916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 59.2 | 45.4 | 85.4 |
| 98 | 36.8 | 16.4 | 56.4 |

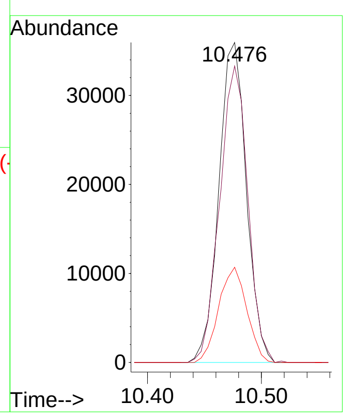





#30
1,2,4-Trichlorobenzene
Concen: 43.106 ng
RT: 10.476 min Scan# 1257
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:180 Resp: 60436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.6 | 75.4 | 113.2 |
| 145 | 29.7 | 23.2 | 34.8 |

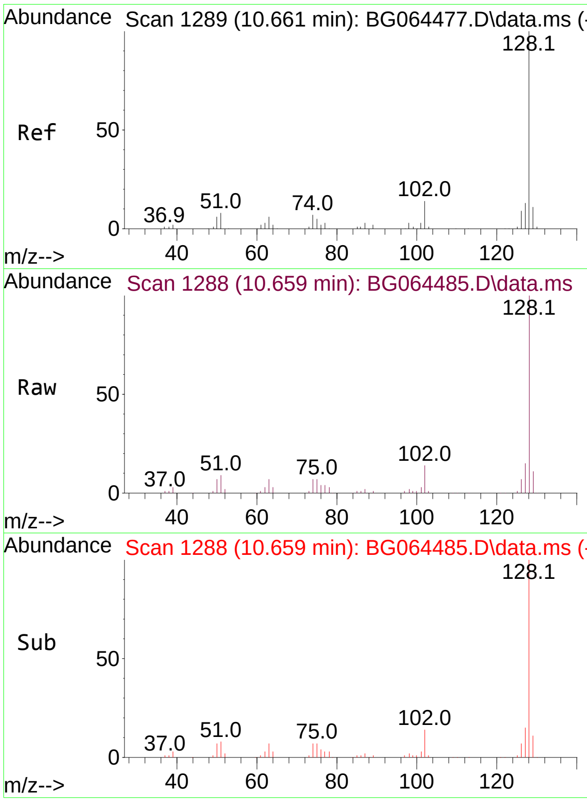


Sample Results: **BG064485.D**

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

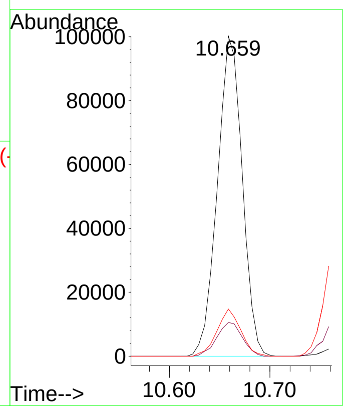
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

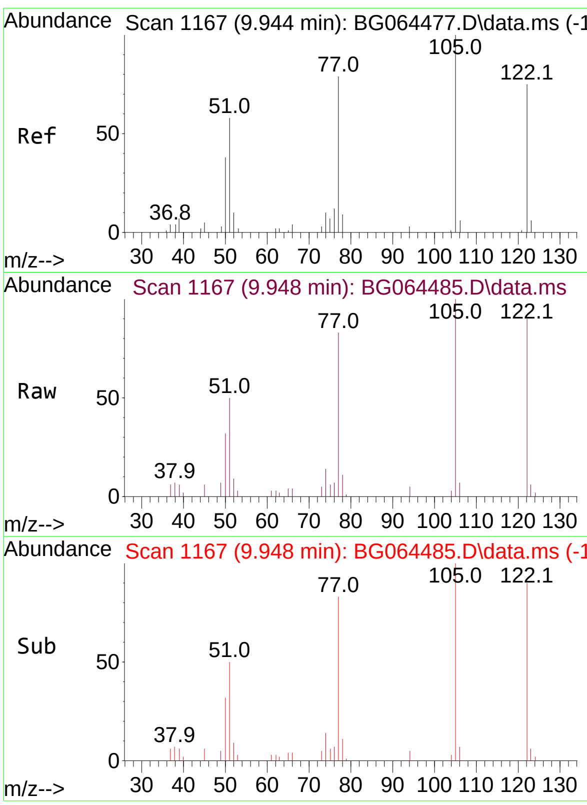



#31
Naphthalene
Concen: 42.446 ng
RT: 10.659 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:128 Resp: 17239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.5 | 8.7 | 13.1 |
| 127 | 14.7 | 10.2 | 15.2 |

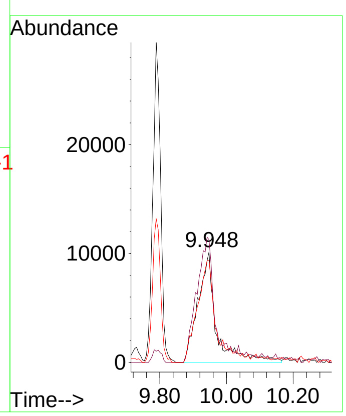



#32
Benzoic acid
Concen: 45.121 ng m
RT: 9.948 min Scan# 1167
Delta R.T. 0.059 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:122 Resp: 38521

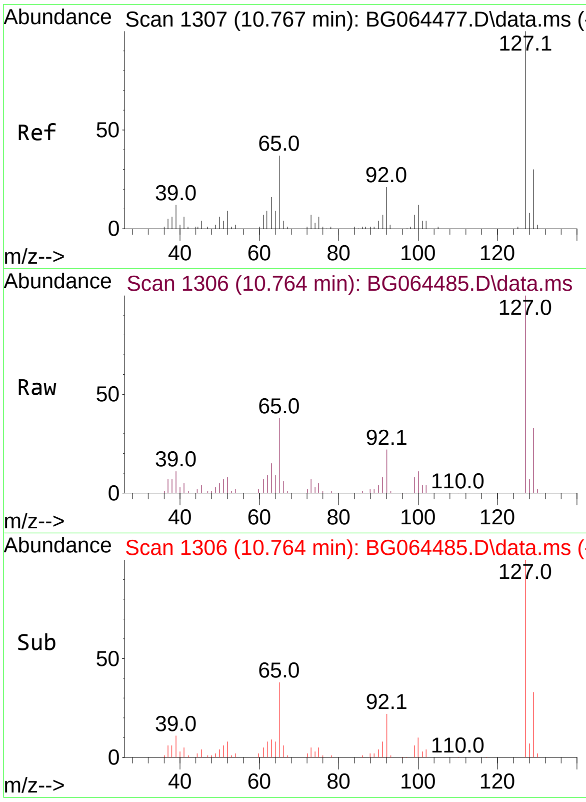
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 110.9 | 113.9 | 153.9# |
| 77 | 92.1 | 86.1 | 126.1 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

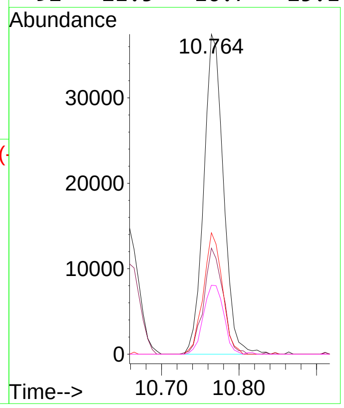
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

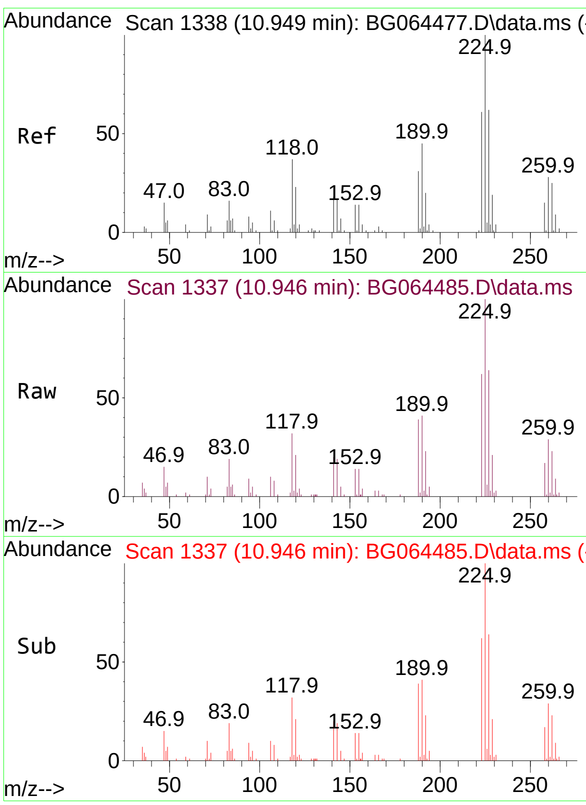



#33
4-Chloroaniline
Concen: 42.535 ng
RT: 10.764 min Scan# 13
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:127 Resp: 6629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 33.1 | 24.2 | 36.4 |
| 65 | 37.9 | 29.6 | 44.4 |
| 92 | 21.5 | 16.7 | 25.1 |

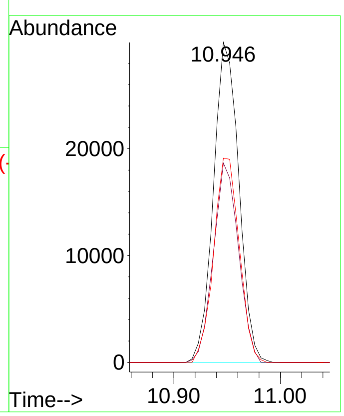



#34
Hexachlorobutadiene
Concen: 41.403 ng
RT: 10.946 min Scan# 1337
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:225 Resp: 49713

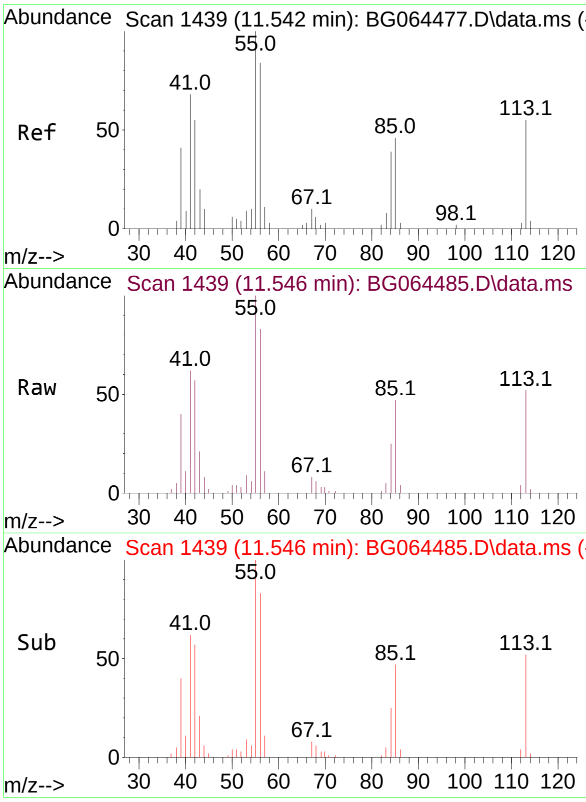
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 49.0 | 73.6 |
| 227 | 63.8 | 49.9 | 74.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

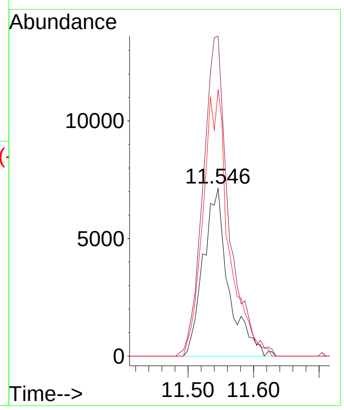
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

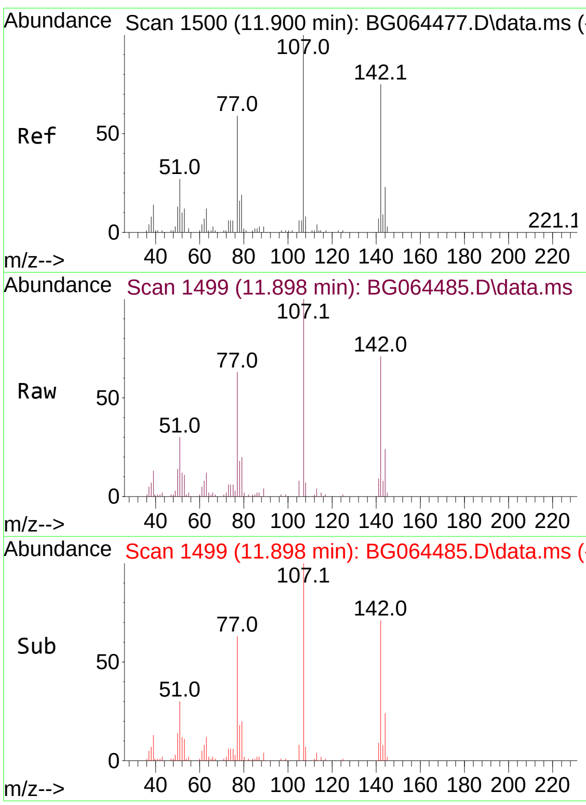



#35
Caprolactam
Concen: 43.558 ng
RT: 11.546 min Scan# 14
Delta R.T. 0.036 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:113 Resp: 1917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 190.9 | 162.0 | 202.0 |
| 56 | 158.7 | 134.6 | 174.6 |

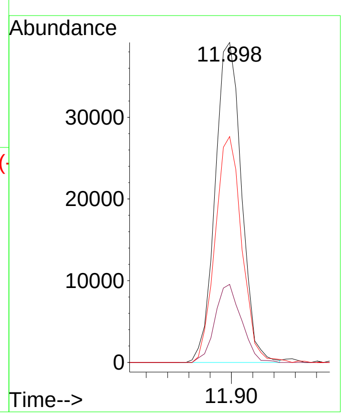



#36
4-Chloro-3-methylphenol
Concen: 43.183 ng
RT: 11.898 min Scan# 1499
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

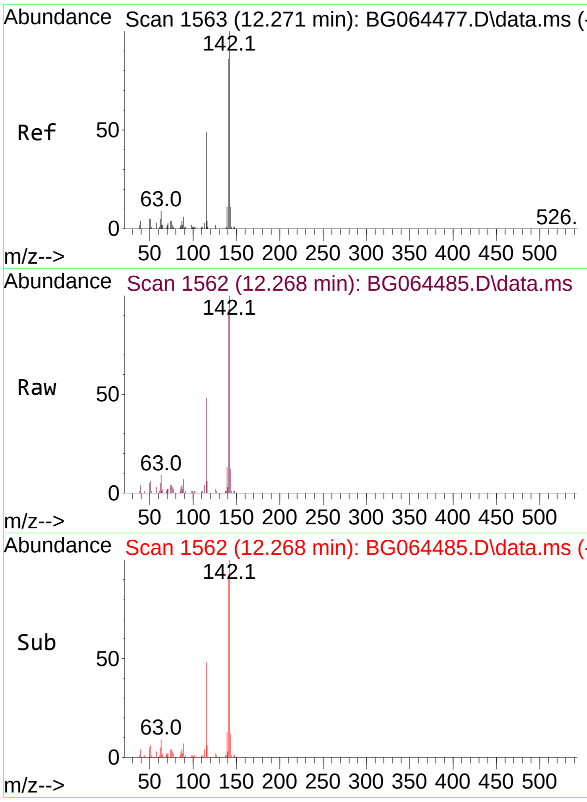
Tgt Ion:107 Resp: 67525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.4 | 18.7 | 28.1 |
| 142 | 70.6 | 60.2 | 90.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

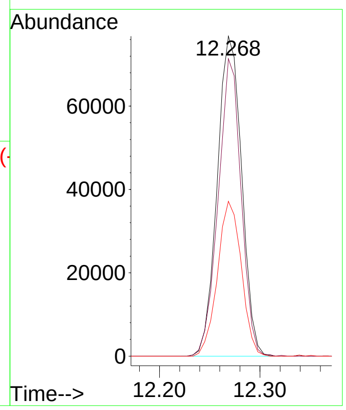
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

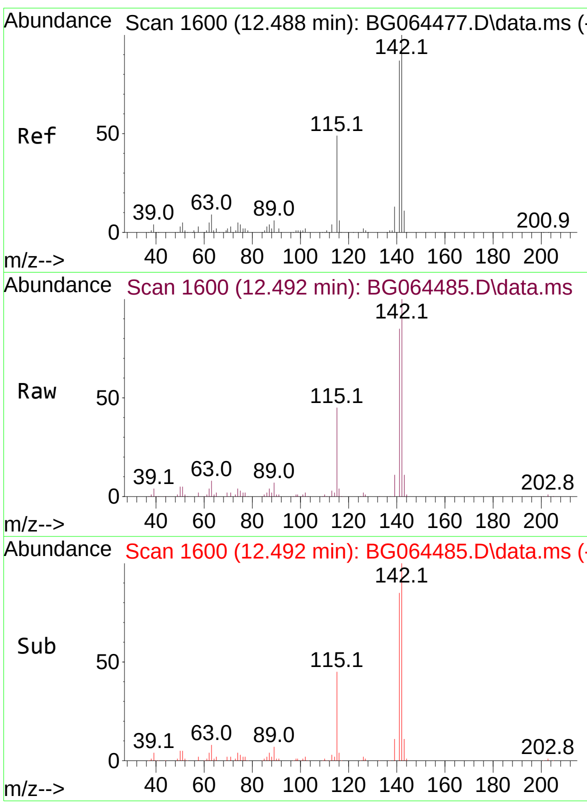



#37
2-Methylnaphthalene
Concen: 41.621 ng
RT: 12.268 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:142 Resp: 12976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.9 | 68.7 | 103.1 |
| 115 | 48.4 | 39.3 | 58.9 |

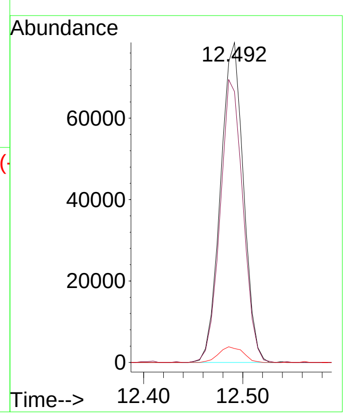



#38
1-Methylnaphthalene
Concen: 40.706 ng m
RT: 12.492 min Scan# 1600
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:142 Resp: 126547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.6 | 69.8 | 104.8 |
| 116 | 4.3 | 4.6 | 6.8# |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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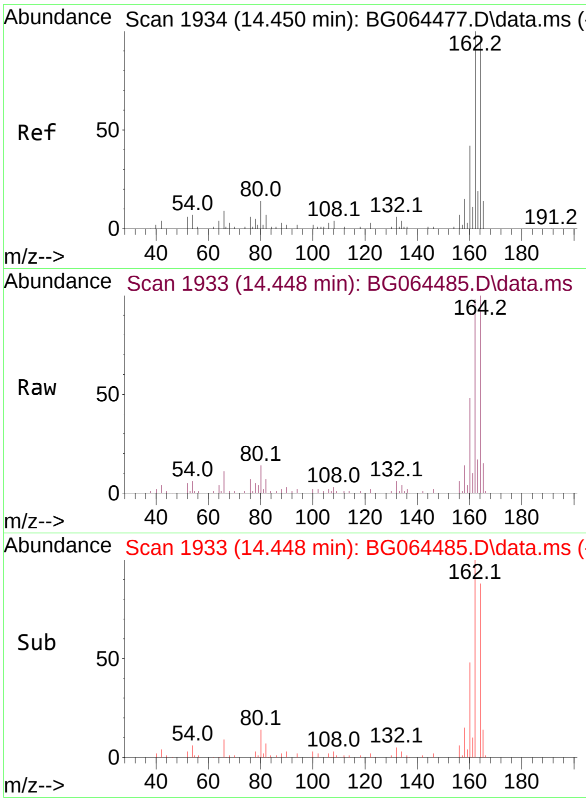
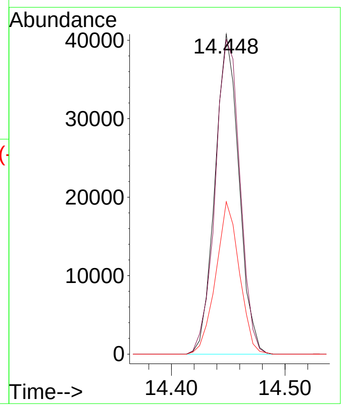
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

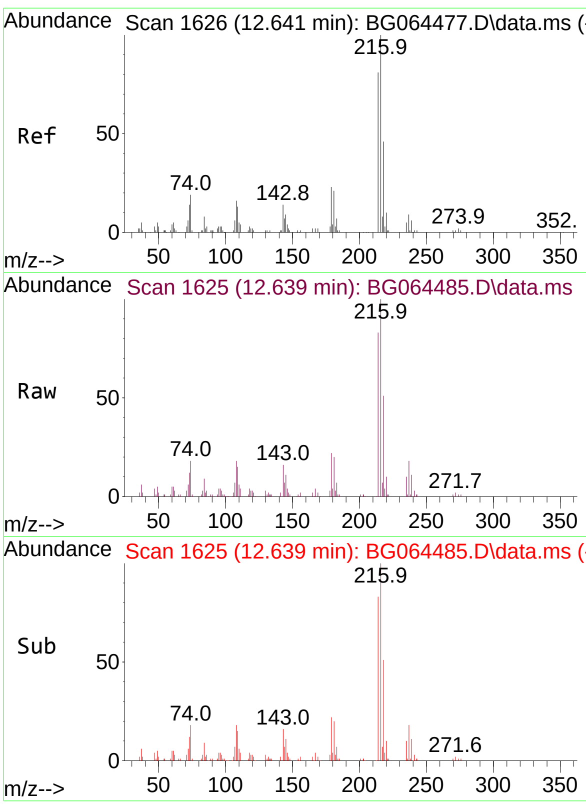



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.448 min Scan# 19
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:164 Resp: 5970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.3 | 82.2 | 123.2 |
| 160 | 47.6 | 34.3 | 51.5 |

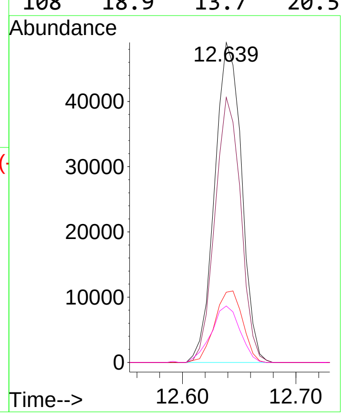



#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.941 ng
RT: 12.639 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:216 Resp: 80854

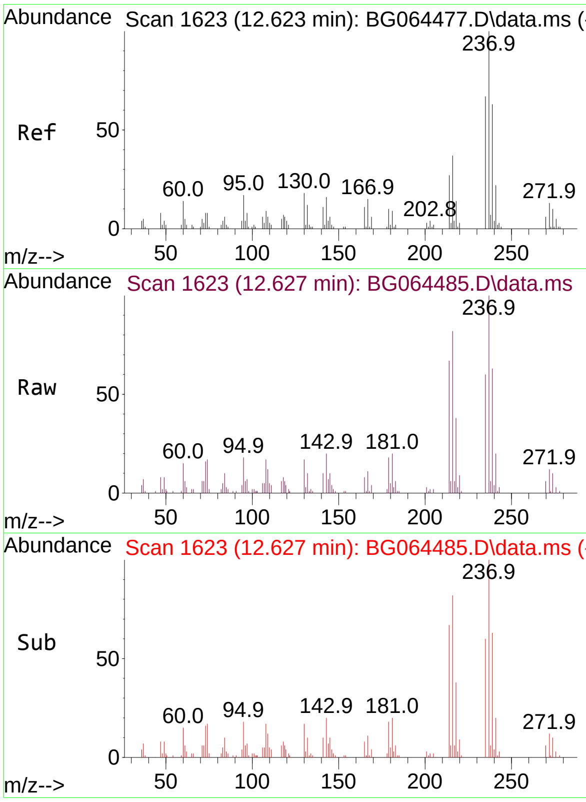
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.4 | 62.5 | 93.7 |
| 179 | 23.1 | 17.0 | 25.6 |
| 108 | 18.9 | 13.7 | 20.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

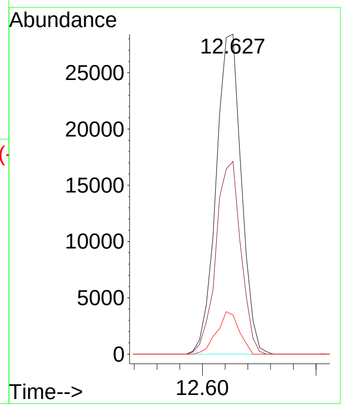
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

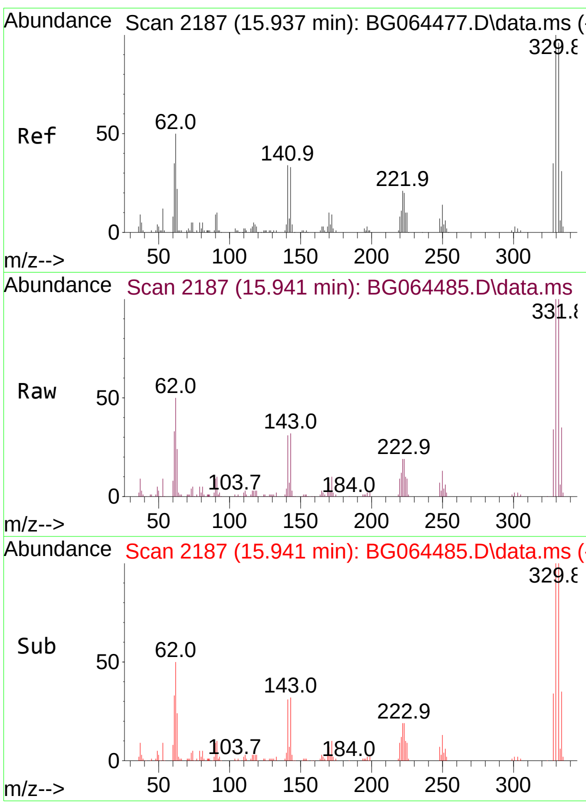



#41
Hexachlorocyclopentadiene
Concen: 43.604 ng
RT: 12.627 min Scan# 16
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:237 Resp: 43971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 60.2 | 46.9 | 86.9 |
| 272 | 12.2 | 0.0 | 32.6 |

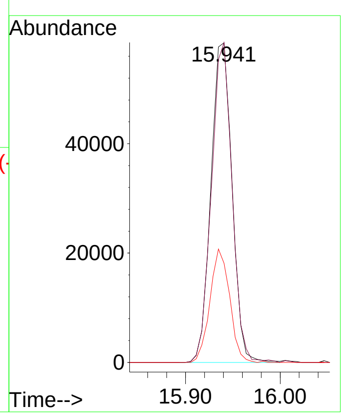



#42
2,4,6-Tribromophenol
Concen: 83.770 ng
RT: 15.941 min Scan# 2187
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:330 Resp: 90661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.7 | 77.4 | 116.0 |
| 141 | 33.2 | 25.8 | 38.6 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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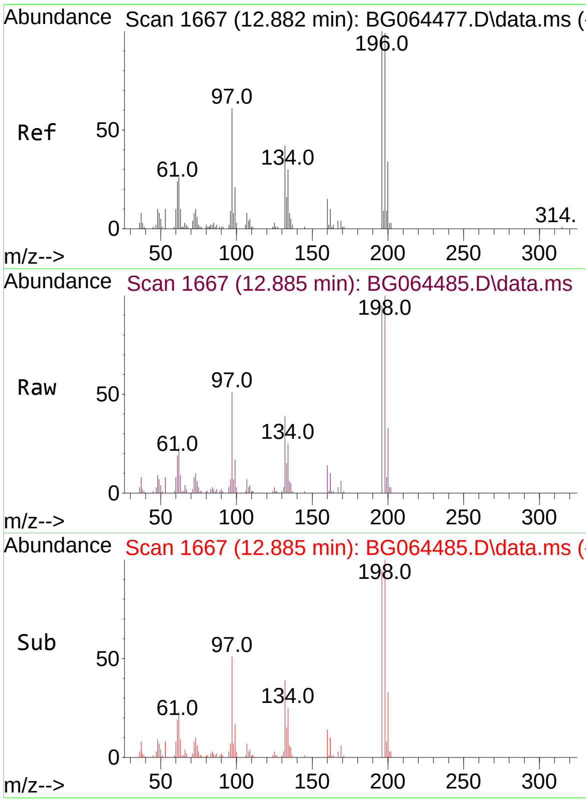
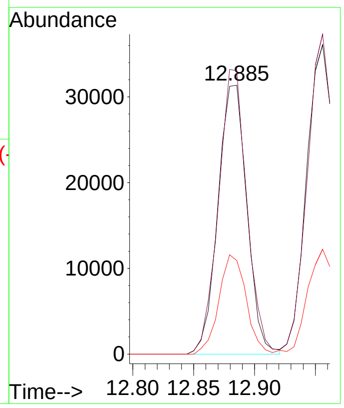
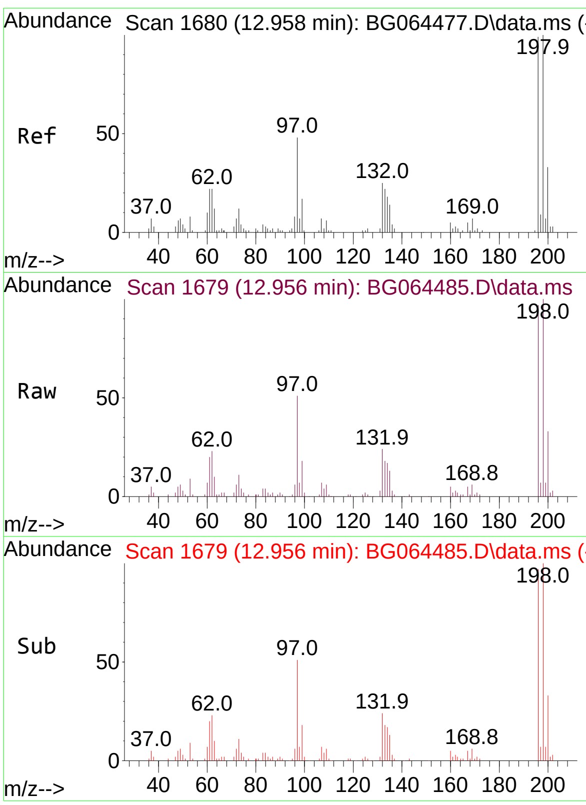
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

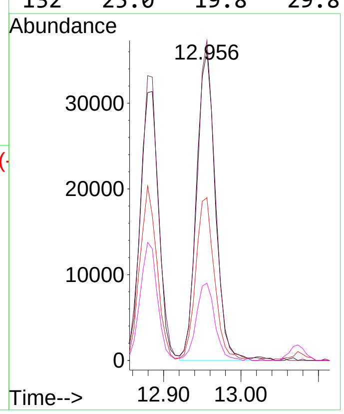


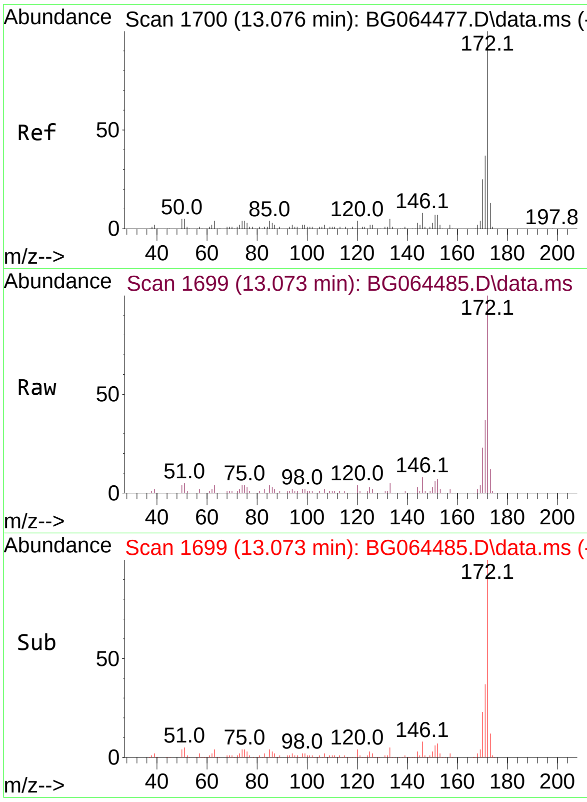

```
#43
2,4,6-Trichlorophenol
Concen:   42.332 ng
RT:  12.885 min  Scan# 16
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:196 Resp:   5216
Ion  Ratio  Lower  Upper
196  100
198  105.4   79.3  118.9
200   34.8   27.4   41.2
```




```
#44
2,4,5-Trichlorophenol
Concen:   44.369 ng
RT:  12.956 min  Scan# 1679
Delta R.T.  0.000 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:196 Resp:   61045
Ion  Ratio  Lower  Upper
196  100
198  103.4   80.3  120.5
 97   52.6   39.4   59.0
132   25.0   19.8   29.8
```






#45
2-Fluorobiphenyl
Concen: 84.661 ng
RT: 13.073 min Scan# 1699
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:172 Resp: 342927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 29.6 | 44.4 |
| 170 | 23.3 | 20.2 | 30.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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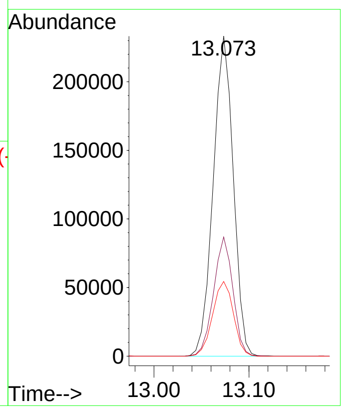
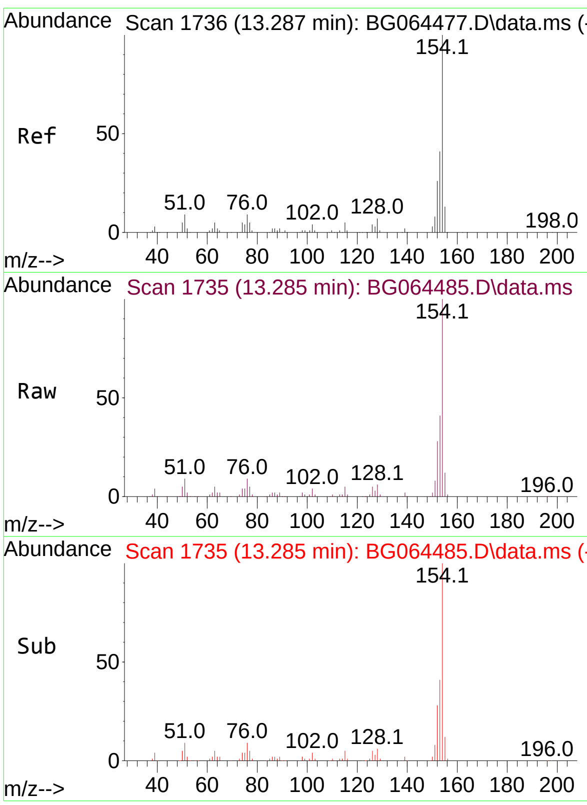
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

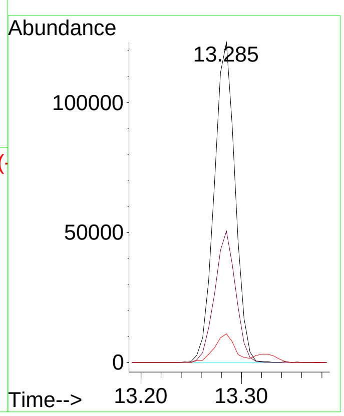



#46
1,1'-Biphenyl
Concen: 41.671 ng
RT: 13.285 min Scan# 1735
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:154 Resp: 178945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.0 | 20.7 | 60.7 |
| 76 | 8.9 | 0.0 | 29.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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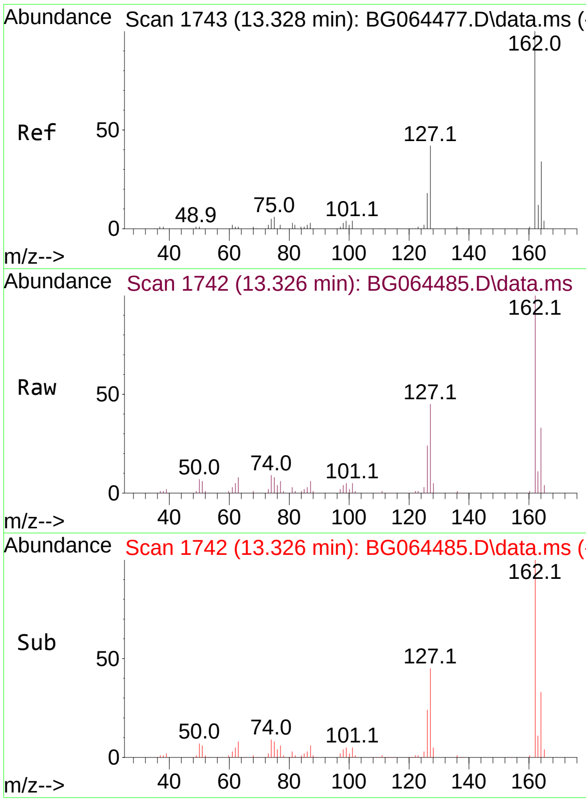
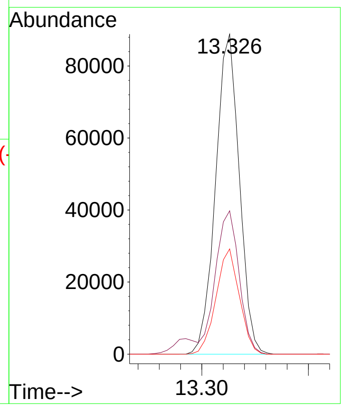
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

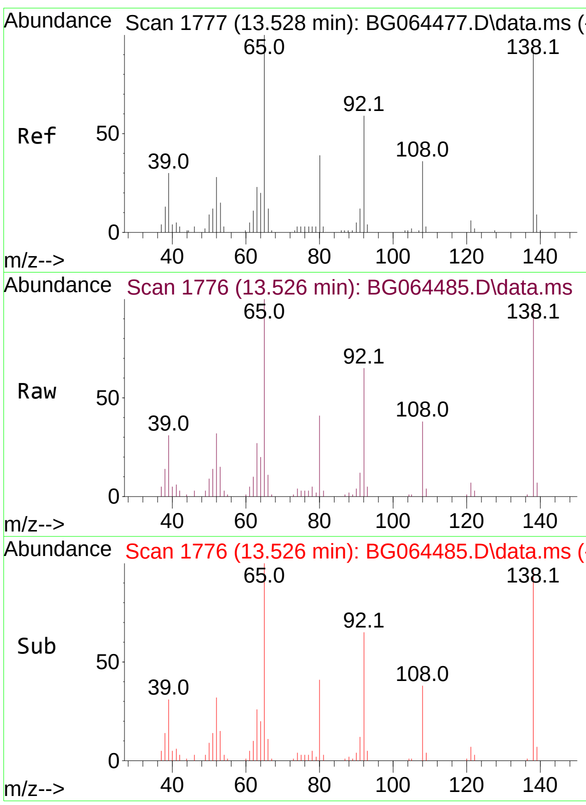



#47
2-Chloronaphthalene
Concen: 42.913 ng
RT: 13.326 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:162 Resp: 13758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.8 | 35.8 | 53.8 |
| 164 | 32.9 | 27.2 | 40.8 |

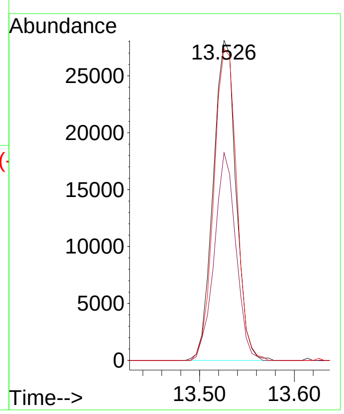



#48
2-Nitroaniline
Concen: 42.937 ng
RT: 13.526 min Scan# 1776
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 65 Resp: 46985

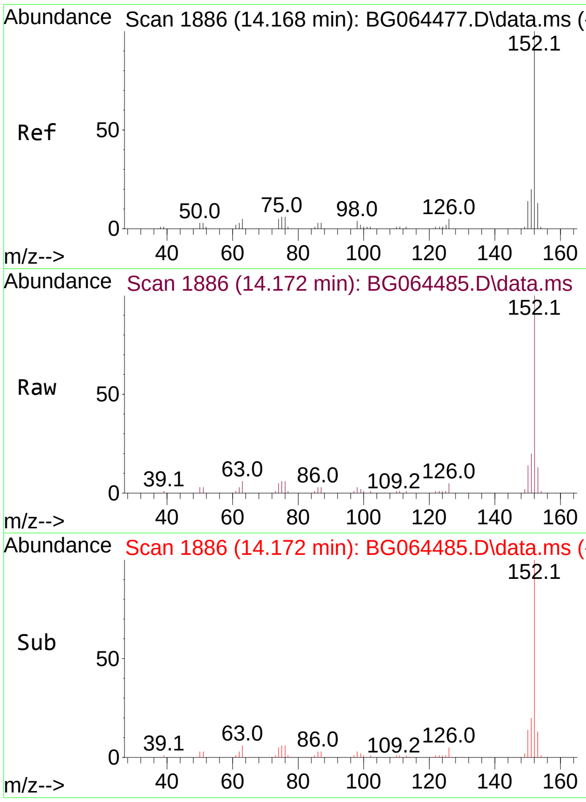
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 64.9 | 47.0 | 70.6 |
| 138 | 97.4 | 73.5 | 110.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

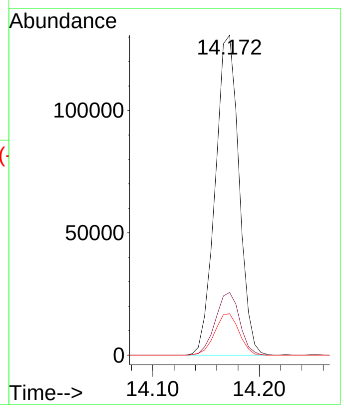
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

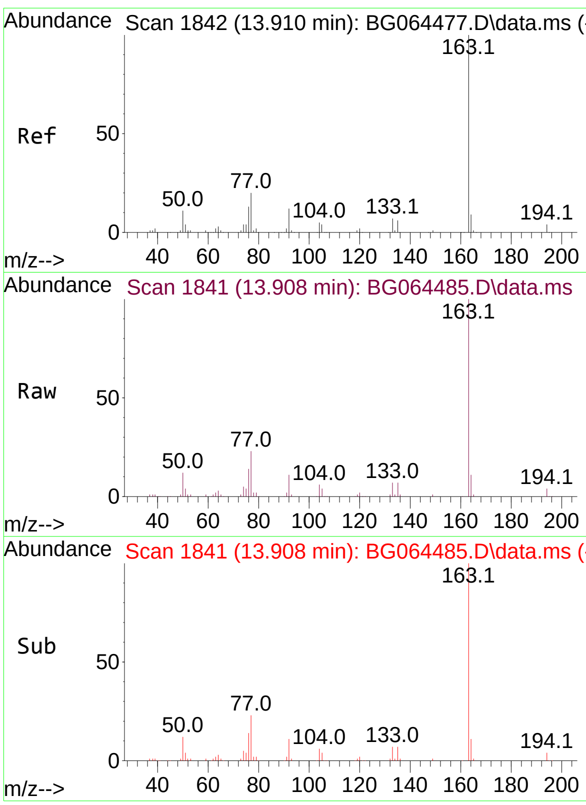



#49
Acenaphthylene
Concen: 42.571 ng
RT: 14.172 min Scan# 18
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:152 Resp: 20261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 15.8 | 23.6 |
| 153 | 12.9 | 10.6 | 15.8 |

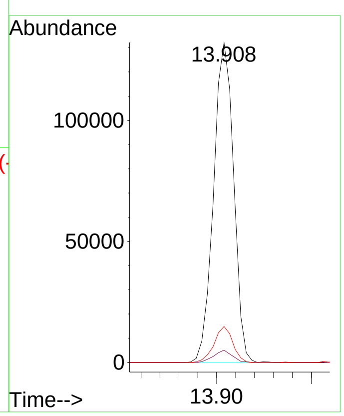



#50
Dimethylphthalate
Concen: 41.685 ng
RT: 13.908 min Scan# 1841
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:163 Resp: 194926

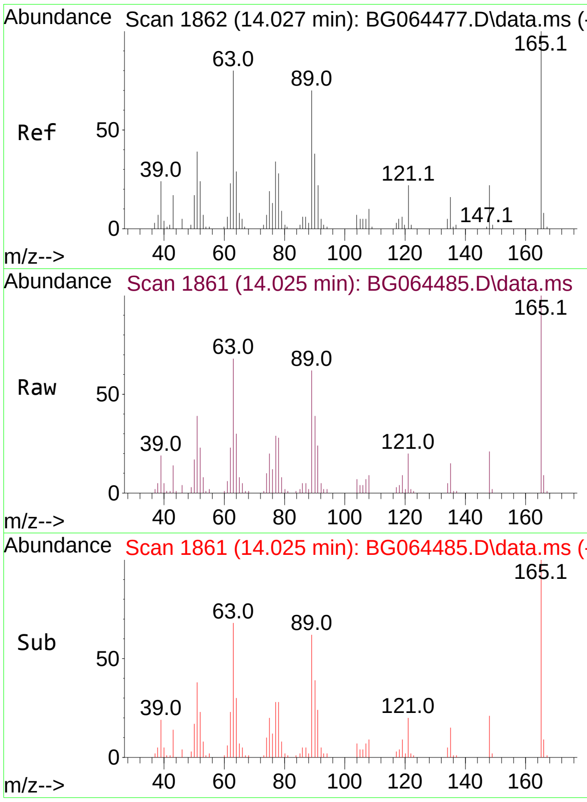
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 2.9 | 4.3 |
| 164 | 11.2 | 7.4 | 11.0# |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

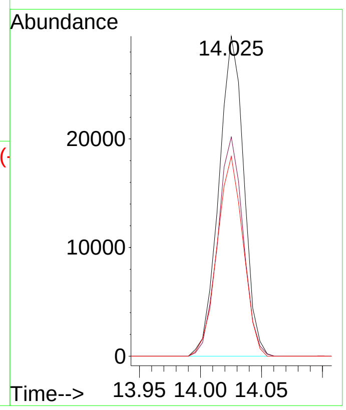
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

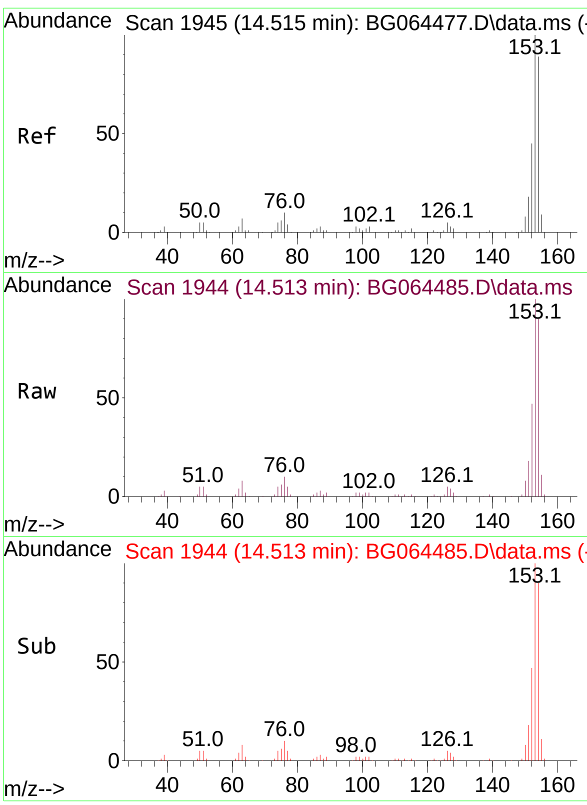



#51
2,6-Dinitrotoluene
Concen: 43.138 ng
RT: 14.025 min Scan# 18
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:165 Resp: 4202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 68.5 | 63.9 | 95.9 |
| 89 | 62.4 | 56.1 | 84.1 |

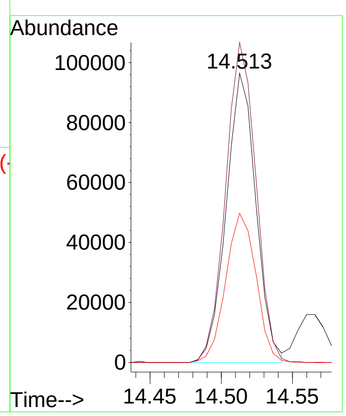


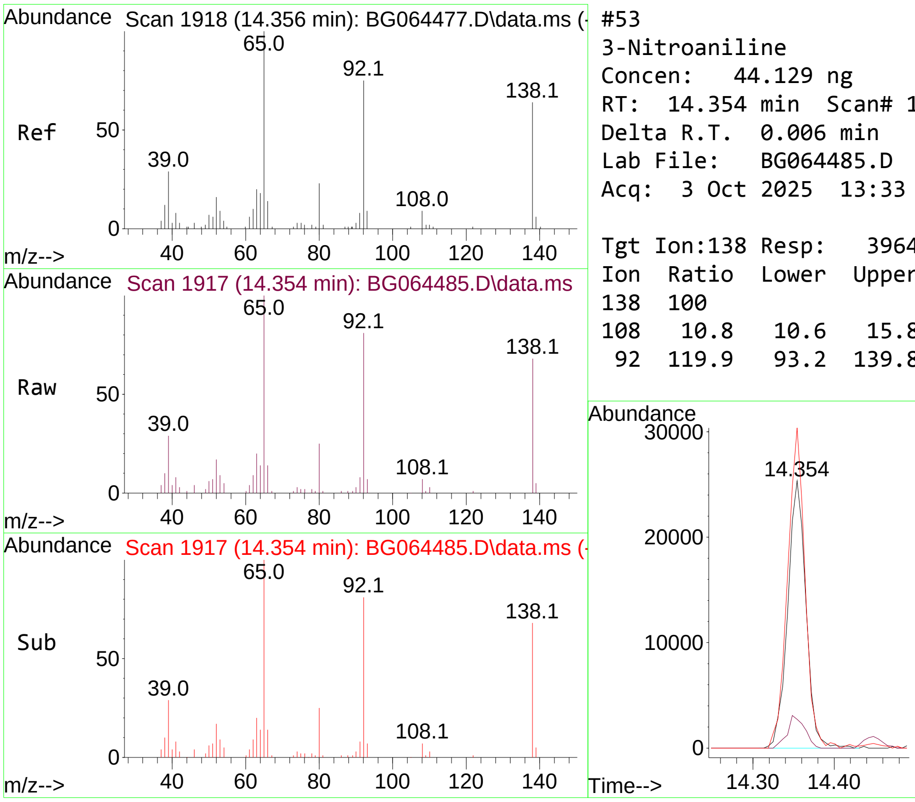




#52
Acenaphthene
Concen: 42.398 ng
RT: 14.513 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:154 Resp: 140193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.7 | 90.2 | 135.4 |
| 152 | 51.6 | 40.2 | 60.4 |





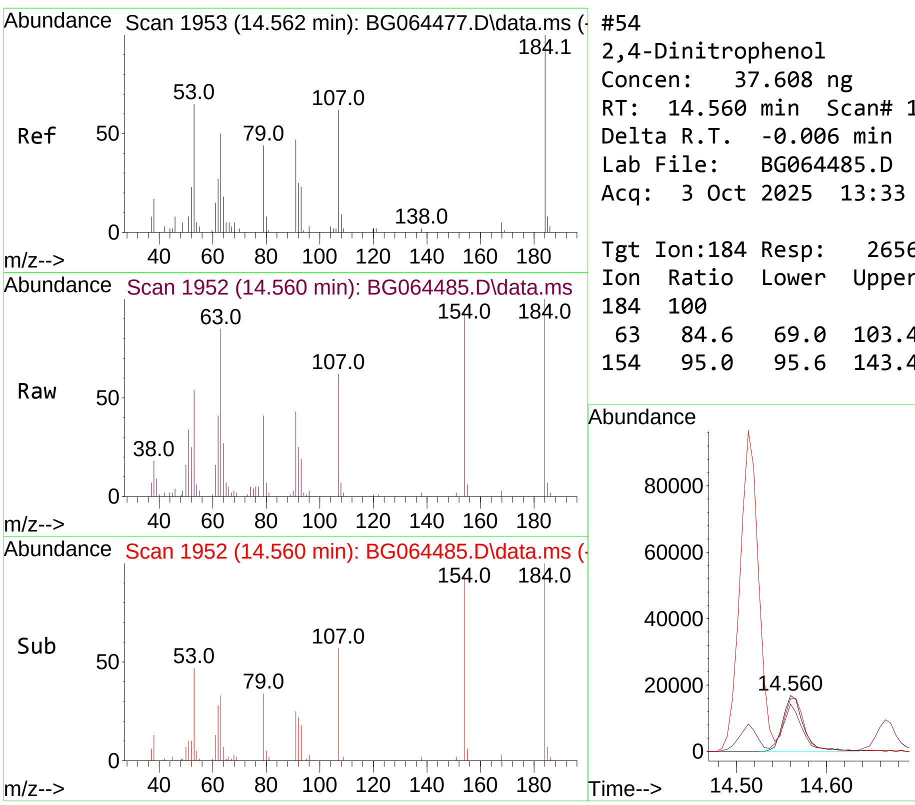

#53
3-Nitroaniline
Concen: 44.129 ng
RT: 14.354 min Scan# 19
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:138 Resp: 3964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 10.8 | 10.6 | 15.8 |
| 92 | 119.9 | 93.2 | 139.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#54
2,4-Dinitrophenol
Concen: 37.608 ng
RT: 14.560 min Scan# 1952
Delta R.T. -0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

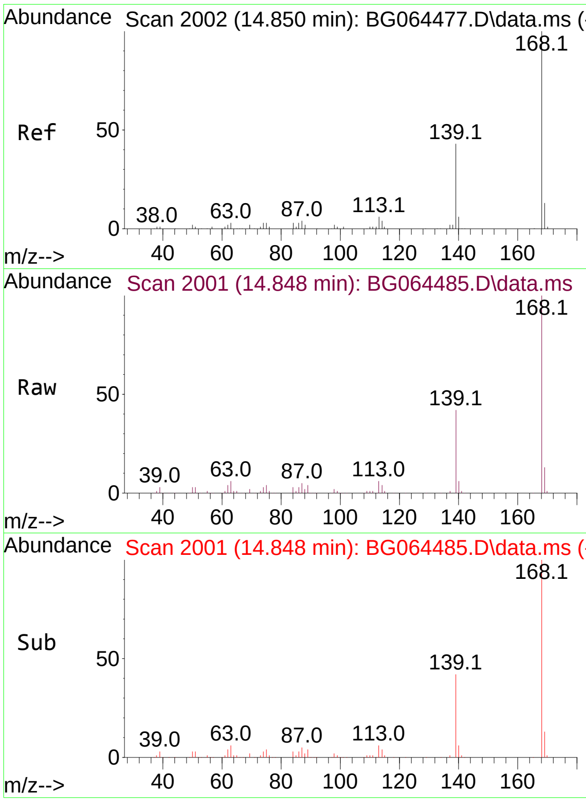
Tgt Ion:184 Resp: 26564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 84.6 | 69.0 | 103.4 |
| 154 | 95.0 | 95.6 | 143.4# |

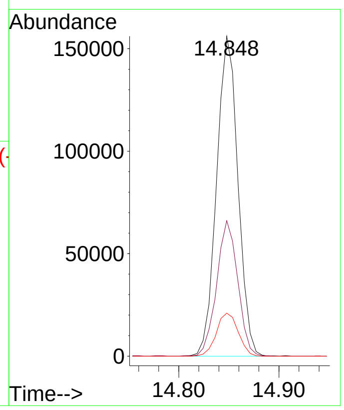
**Instrument :** BNA_G
**ClientSampleId :** SSTDCCC040

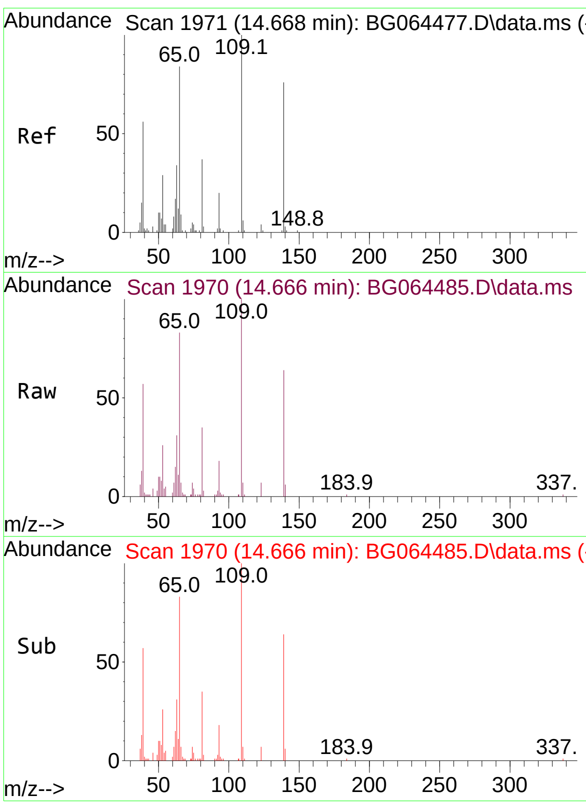
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

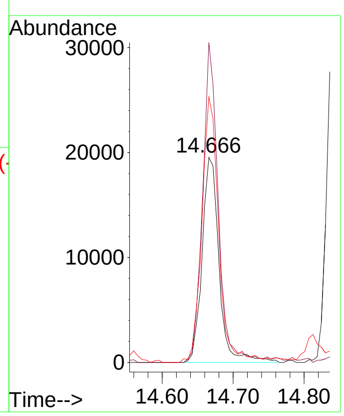


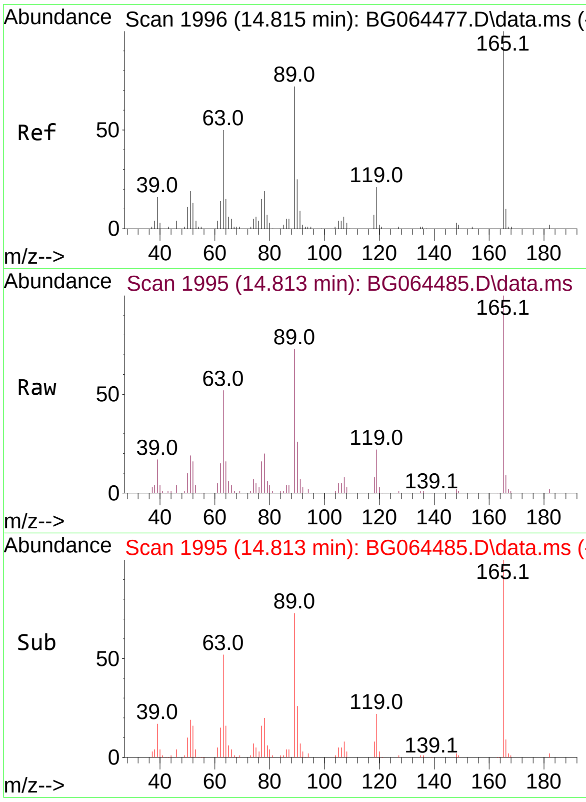

```
#55
Dibenzofuran
Concen:   42.419 ng
RT:  14.848 min  Scan# 20
Delta R.T.  0.000 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:168 Resp:  23159
Ion  Ratio  Lower  Upper
168  100
139   42.3   34.0   51.0
169   13.4   10.2   15.2
```




```
#56
4-Nitrophenol
Concen:   45.736 ng
RT:  14.666 min  Scan# 1970
Delta R.T.  0.000 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:139 Resp:   32349
Ion  Ratio  Lower  Upper
139  100
109  156.0  111.8  151.8#
 65  129.5   91.1  131.1
```






#57
2,4-Dinitrotoluene
Concen: 43.076 ng
RT: 14.813 min Scan# 19
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:165 Resp: 64144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 52.3 | 40.4 | 60.6 |
| 89 | 73.0 | 57.3 | 85.9 |
| 182 | 1.8 | 1.9 | 2.9# |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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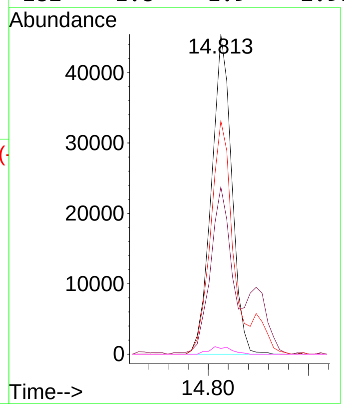
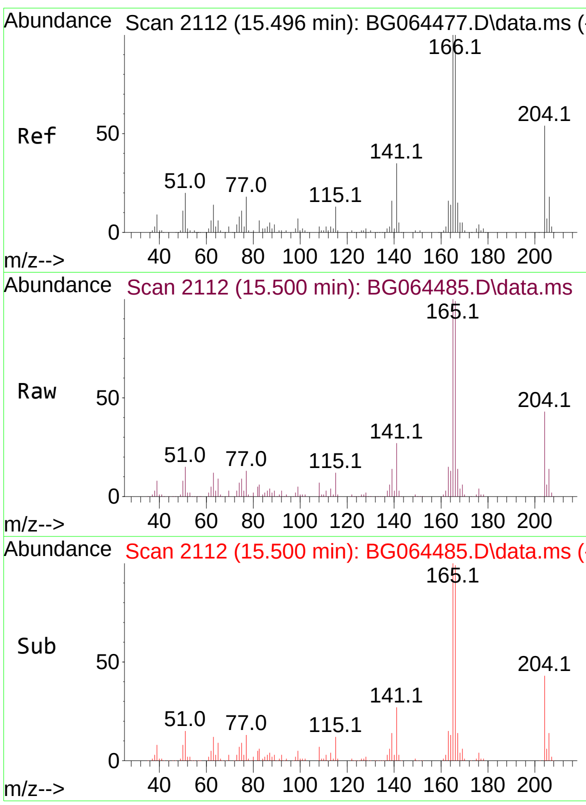
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

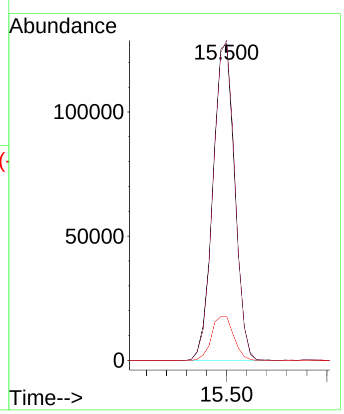



#58
Fluorene
Concen: 42.672 ng
RT: 15.500 min Scan# 2112
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:166 Resp: 193686

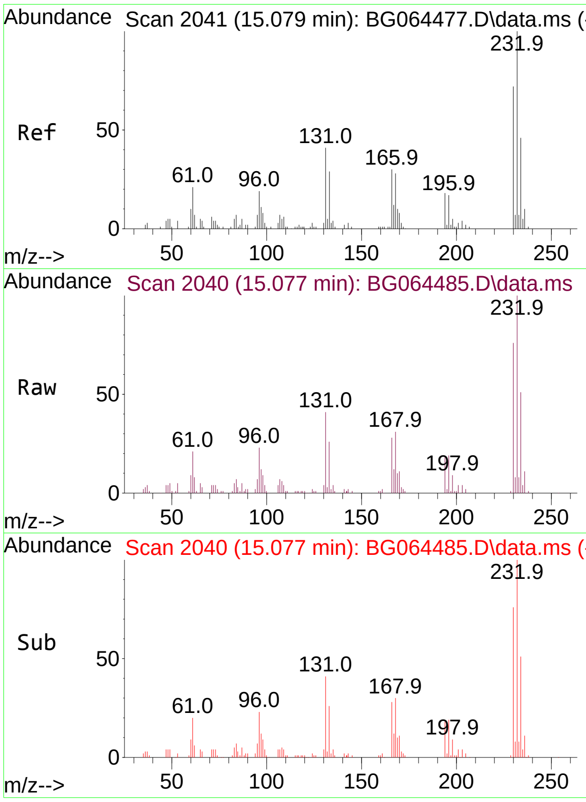
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.0 | 79.8 | 119.6 |
| 167 | 13.8 | 11.7 | 17.5 |



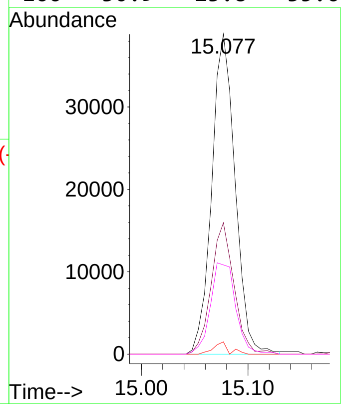
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

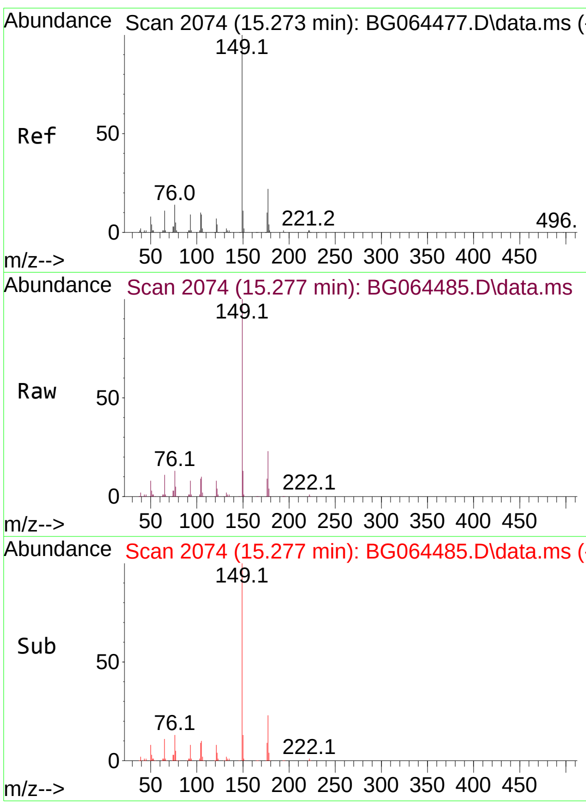
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

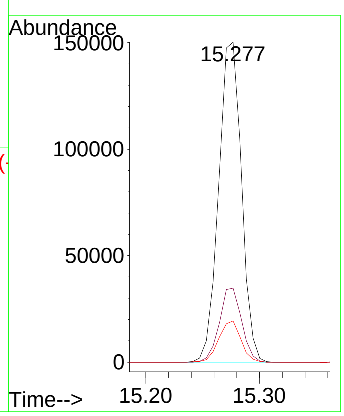



```
#59
2,3,4,6-Tetrachlorophenol
Concen:   42.283 ng
RT:  15.077 min  Scan# 20
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:232 Resp:   5937
Ion  Ratio  Lower  Upper
232  100
131   40.0   35.0   52.4
130    2.5    2.0    3.0
166   30.9   23.8   35.6
```




```
#60
Diethylphthalate
Concen:   41.844 ng
RT:  15.277 min  Scan# 2074
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:149 Resp:  209905
Ion  Ratio  Lower  Upper
149  100
177   23.1   17.4   26.0
150   12.9    9.1   13.7
```



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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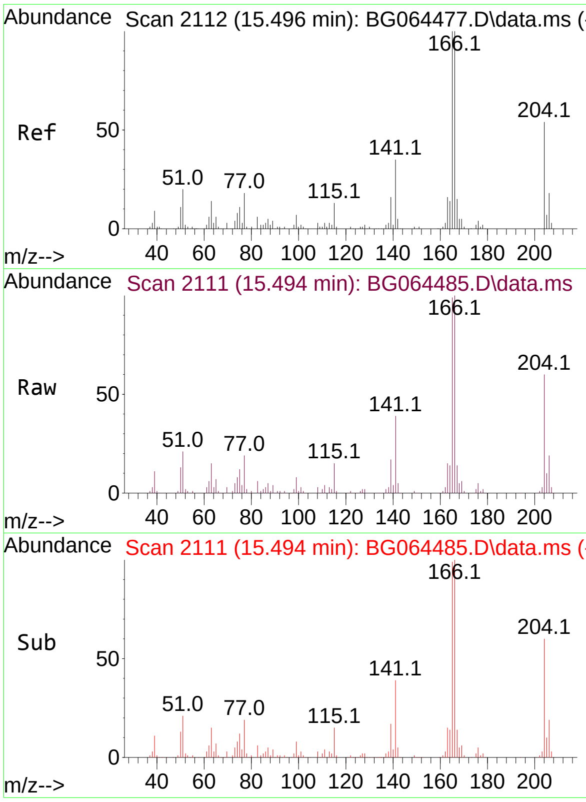
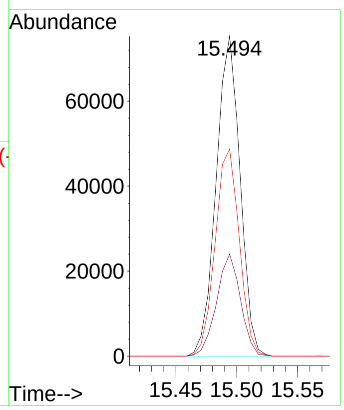
Supervised By :Jagrut Upadhyay 10/06/2025

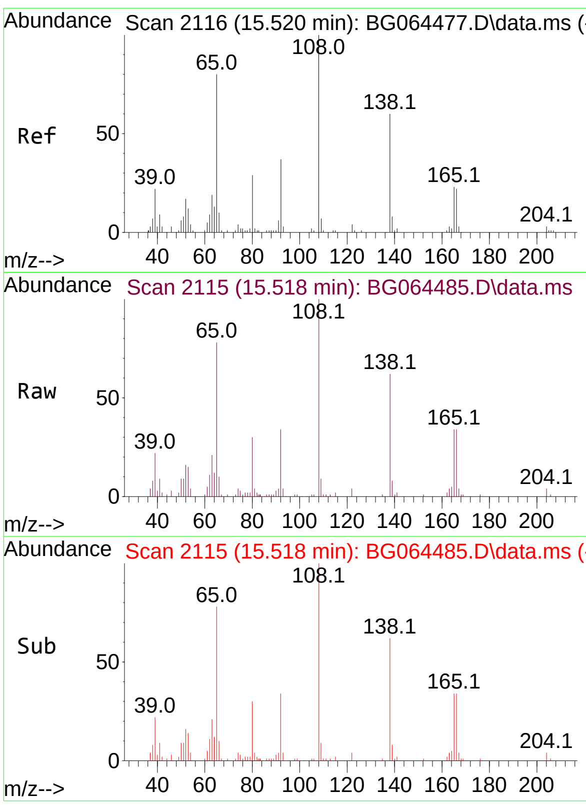



#61
4-Chlorophenyl-phenylether
Concen: 41.563 ng
RT: 15.494 min Scan# 21
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:204 Resp: 10299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.9 | 27.1 | 40.7 |
| 141 | 64.8 | 51.5 | 77.3 |

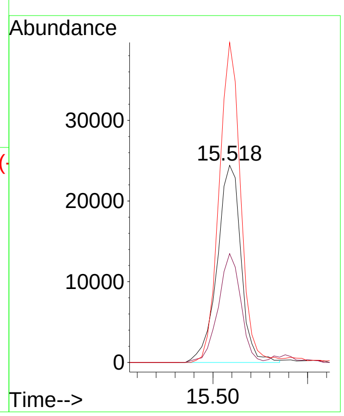



#62
4-Nitroaniline
Concen: 45.530 ng
RT: 15.518 min Scan# 2115
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:138 Resp: 42631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.2 | 42.3 | 82.3 |
| 108 | 162.4 | 147.7 | 187.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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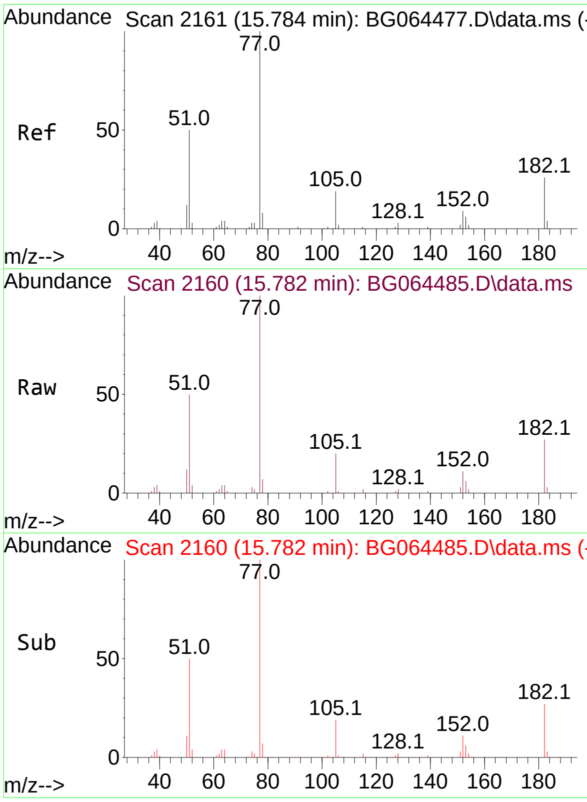
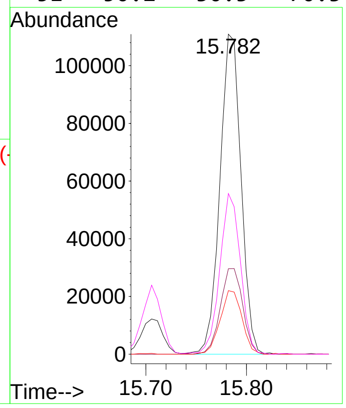
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

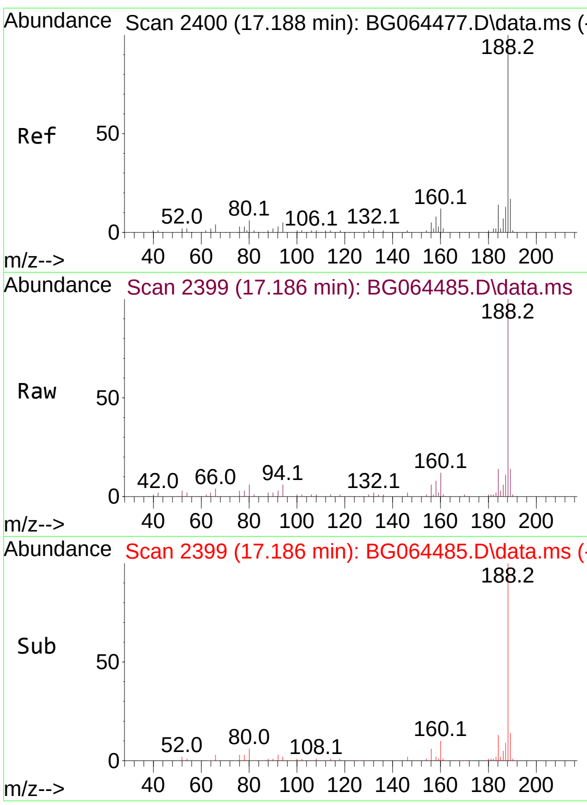



#63
Azobenzene
Concen: 41.906 ng
RT: 15.782 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion: 77 Resp: 16280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 26.7 | 6.3 | 46.3 |
| 105 | 19.8 | 0.0 | 38.7 |
| 51 | 50.2 | 30.3 | 70.3 |

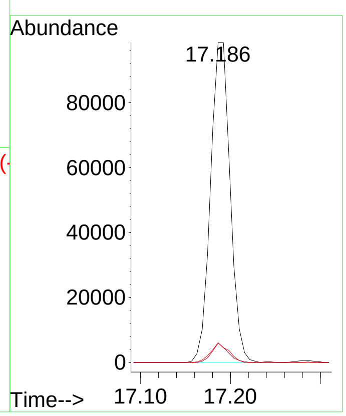


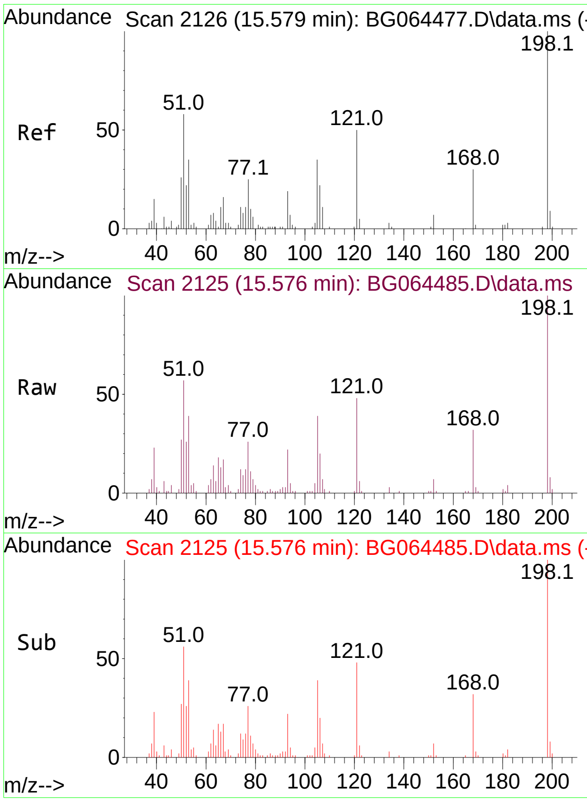




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.186 min Scan# 2399
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:188 Resp: 149943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 6.0 | 3.7 | 5.5# |
| 80 | 6.1 | 4.5 | 6.7 |






#65
4,6-Dinitro-2-methylphenol
Concen: 42.100 ng
RT: 15.576 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:198 Resp: 4395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 56.9 | 39.0 | 79.0 |
| 105 | 38.6 | 15.8 | 55.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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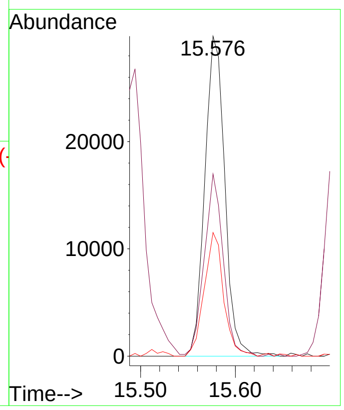
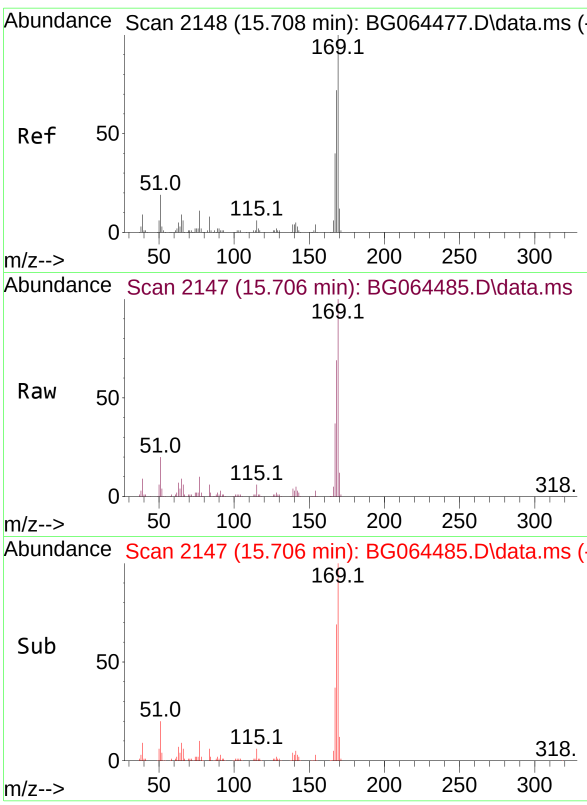
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

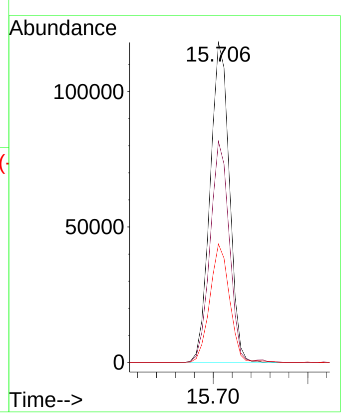



#66
n-Nitrosodiphenylamine
Concen: 41.856 ng
RT: 15.706 min Scan# 2147
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:169 Resp: 167596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 69.1 | 57.8 | 86.6 |
| 167 | 37.0 | 31.7 | 47.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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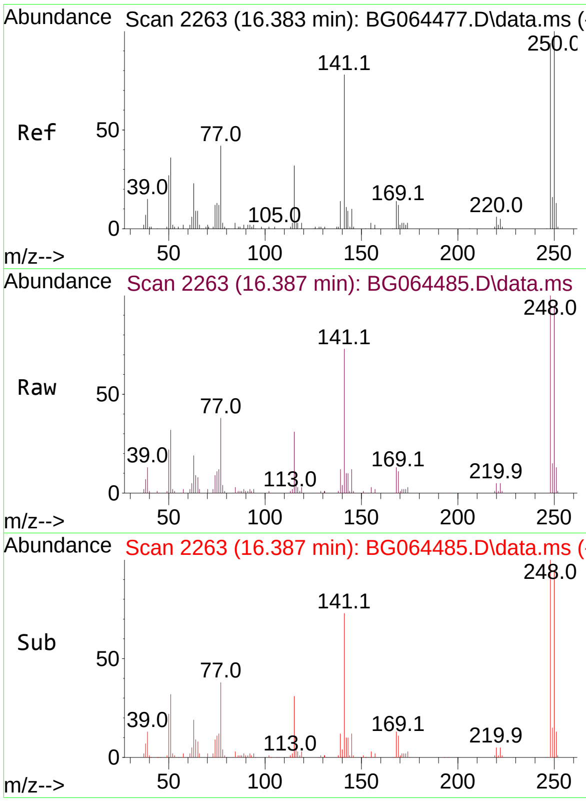
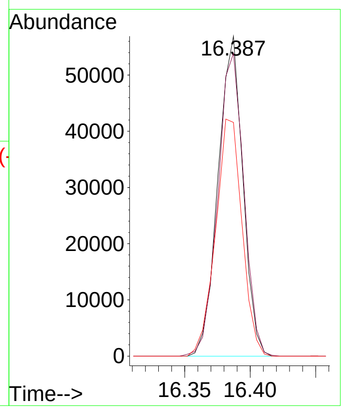
Supervised By :Jagrut Upadhyay 10/06/2025

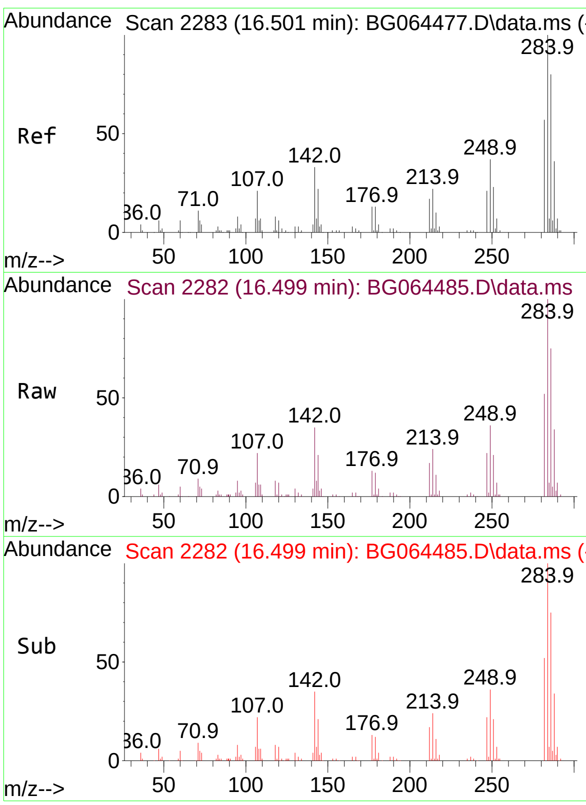



#67
4-Bromophenyl-phenylether
Concen: 42.541 ng
RT: 16.387 min Scan# 22
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:248 Resp: 75062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.6 | 85.3 | 127.9 |
| 141 | 73.0 | 66.2 | 99.2 |

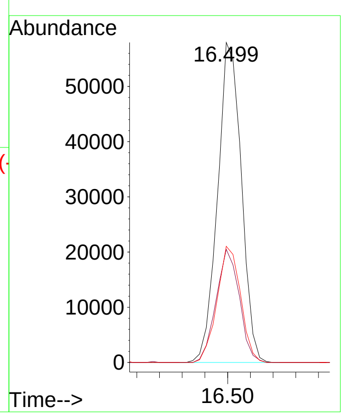



#68
Hexachlorobenzene
Concen: 41.729 ng
RT: 16.499 min Scan# 2282
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:284 Resp: 84254

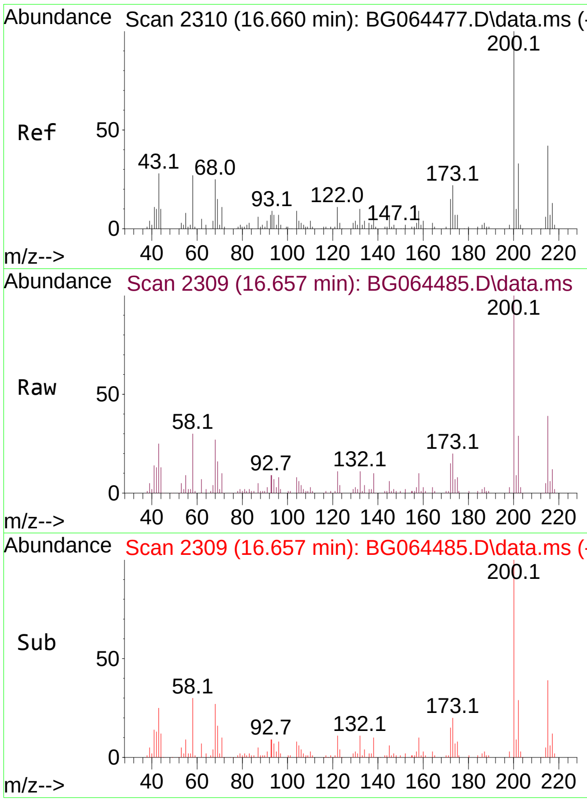
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.4 | 26.2 | 39.2 |
| 249 | 36.3 | 29.4 | 44.0 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

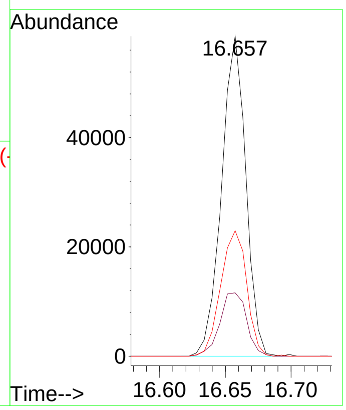
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

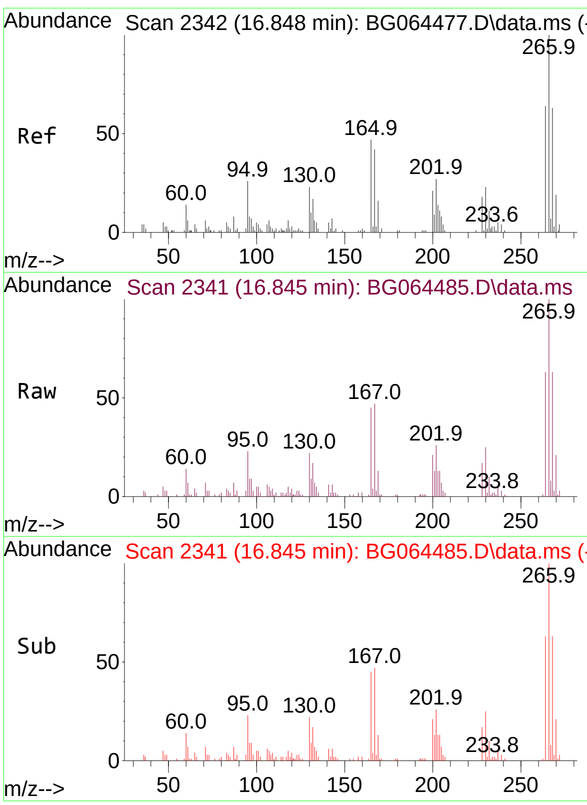



#69
Atrazine
Concen: 42.302 ng
RT: 16.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:200 Resp: 7535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 19.8 | 2.5 | 42.5 |
| 215 | 39.2 | 21.5 | 61.5 |

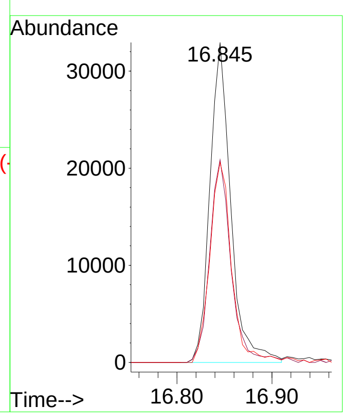



#70
Pentachlorophenol
Concen: 42.750 ng
RT: 16.845 min Scan# 2341
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:266 Resp: 50468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.3 | 50.6 | 75.8 |
| 264 | 62.5 | 51.2 | 76.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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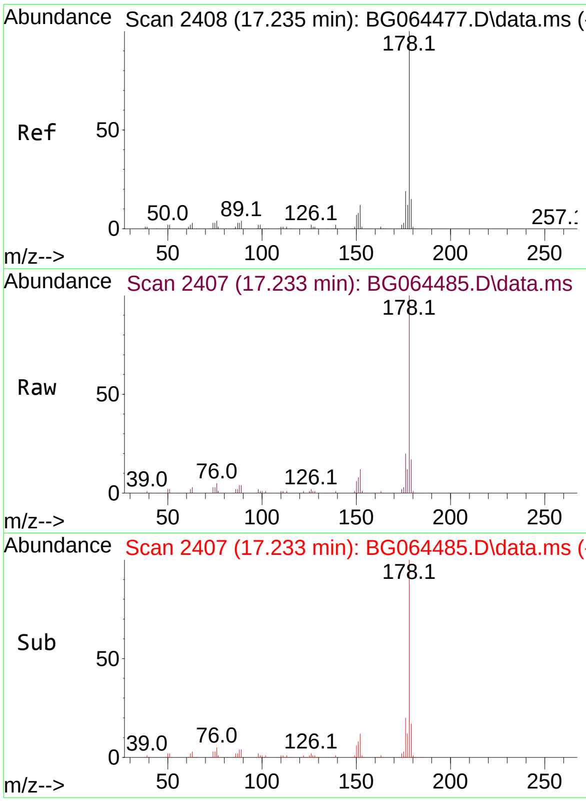
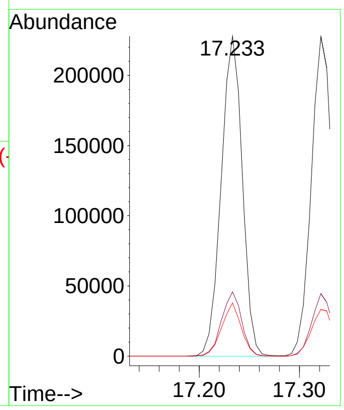
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

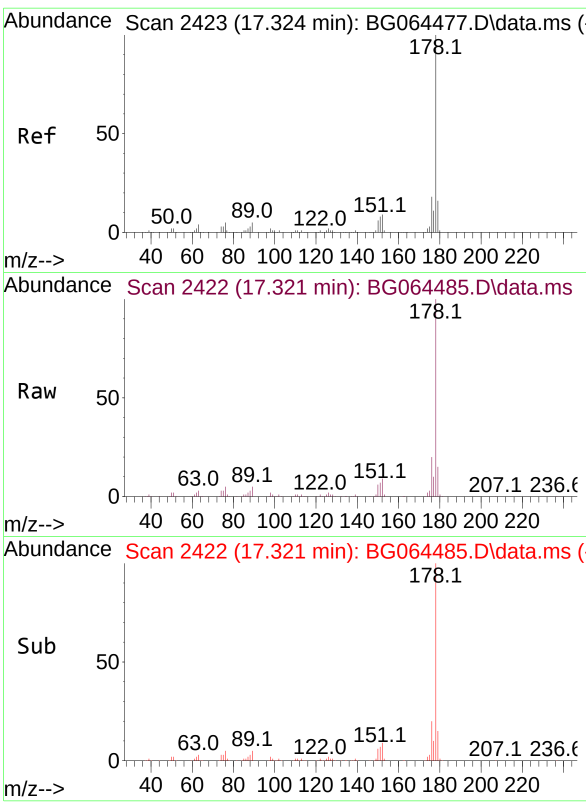



#71
Phenanthrene
Concen: 42.560 ng
RT: 17.233 min Scan# 24
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:178 Resp: 33372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.1 | 15.2 | 22.8 |
| 179 | 16.6 | 11.8 | 17.6 |

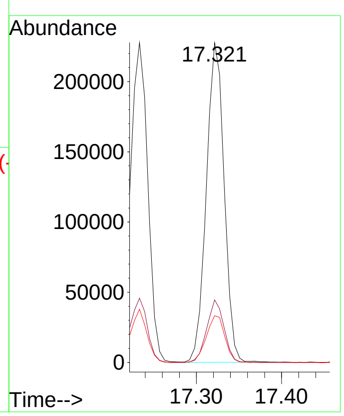


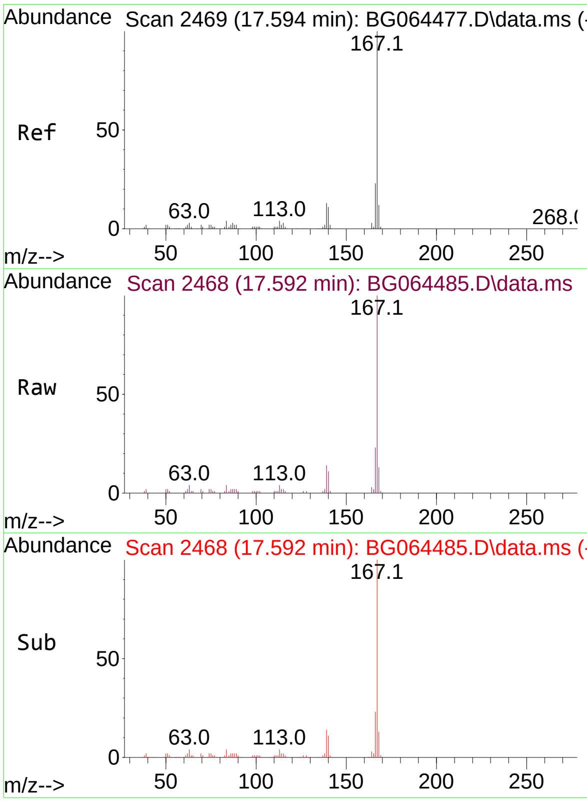




#72
Anthracene
Concen: 42.045 ng
RT: 17.321 min Scan# 2422
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:178 Resp: 330750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 14.6 | 21.8 |
| 179 | 14.6 | 12.5 | 18.7 |





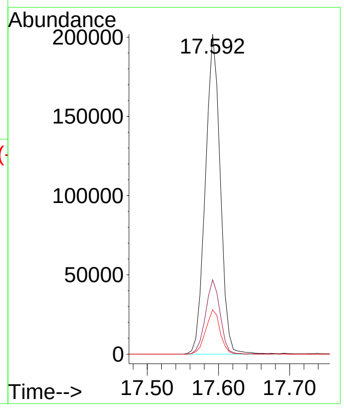

#73
Carbazole
Concen: 43.148 ng
RT: 17.592 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

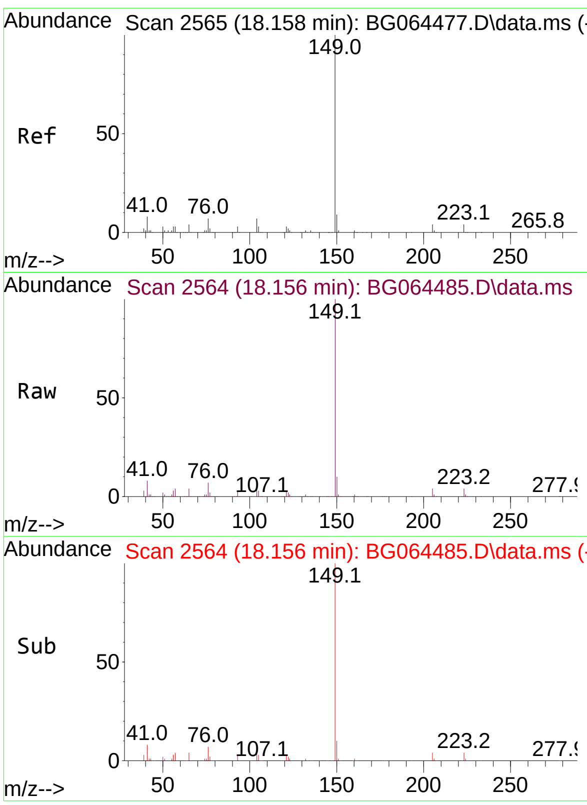
Tgt Ion:167 Resp: 293389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.2 | 18.6 | 27.8 |
| 139 | 13.8 | 10.2 | 15.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

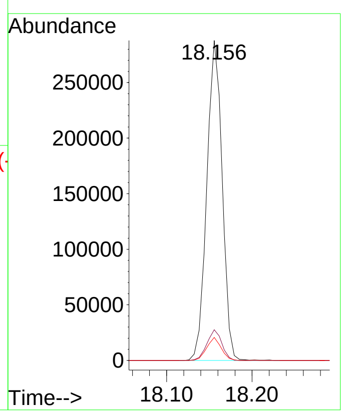



#74
Di-n-butylphthalate
Concen: 43.402 ng
RT: 18.156 min Scan# 2564
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

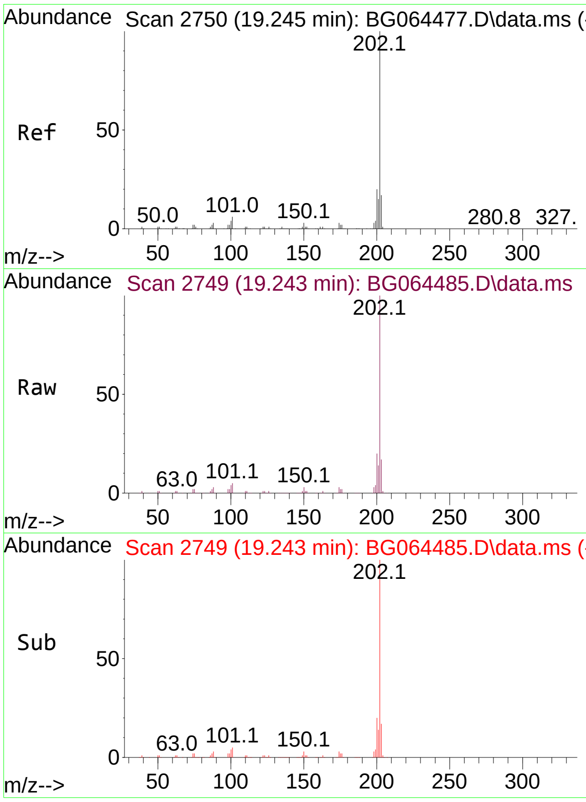
Tgt Ion:149 Resp: 360262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.6 | 7.4 | 11.2 |
| 104 | 7.2 | 5.3 | 7.9 |

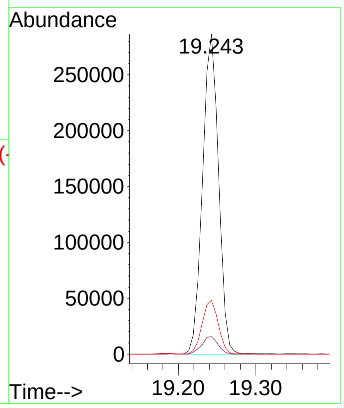


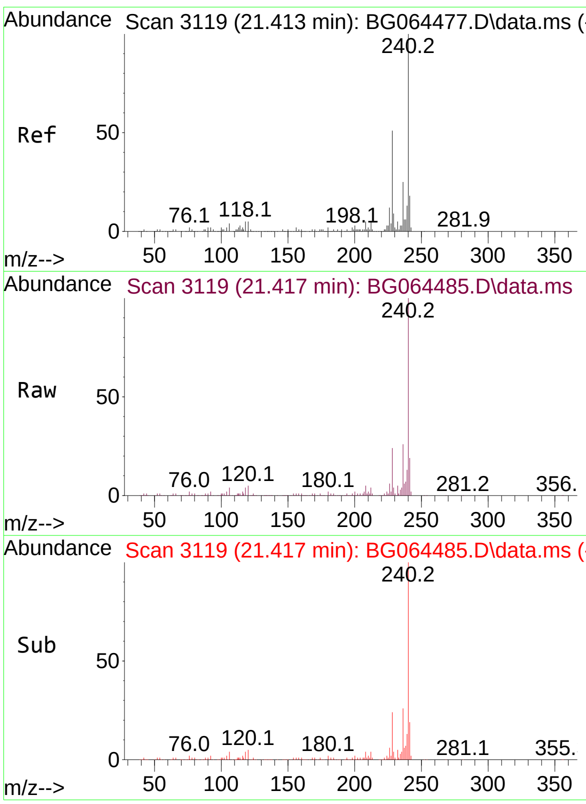
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

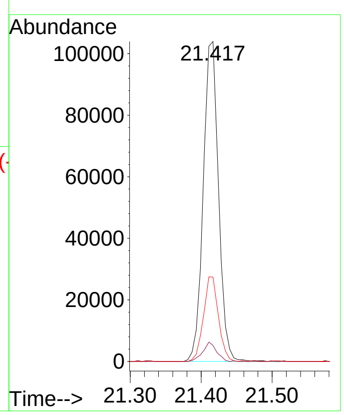



```
#75
Fluoranthene
Concen:    43.921 ng
RT:  19.243 min   Scan# 2
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025   13:33

Tgt Ion:202 Resp:  41144
Ion  Ratio  Lower  Upper
202  100
101    5.4    0.0   25.7
203   16.8    0.0   36.6
```



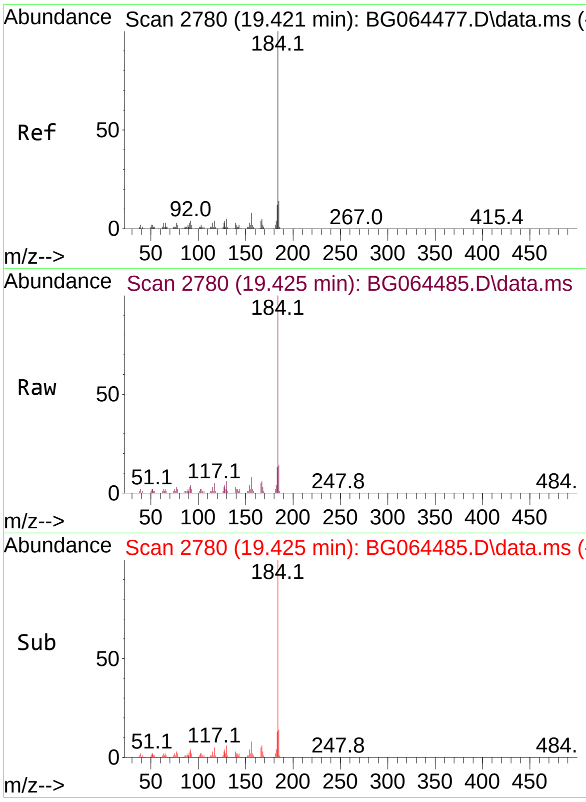

```
#76
Chrysene-d12
Concen:    20.000 ng
RT:  21.417 min   Scan# 3119
Delta R.T.  0.007 min
Lab File:   BG064485.D
Acq:  3 Oct 2025   13:33

Tgt Ion:240 Resp:  155011
Ion  Ratio  Lower  Upper
240  100
120    5.0    4.3    6.5
236   26.3   20.4   30.6
```



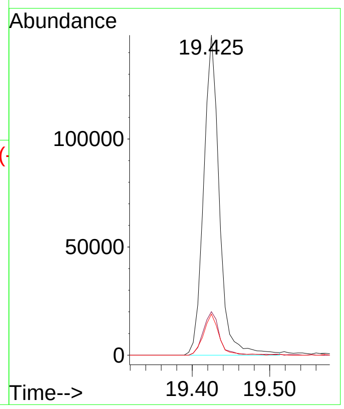
**Instrument :** BNA_G
**ClientSampleId :** SSTDCCC040

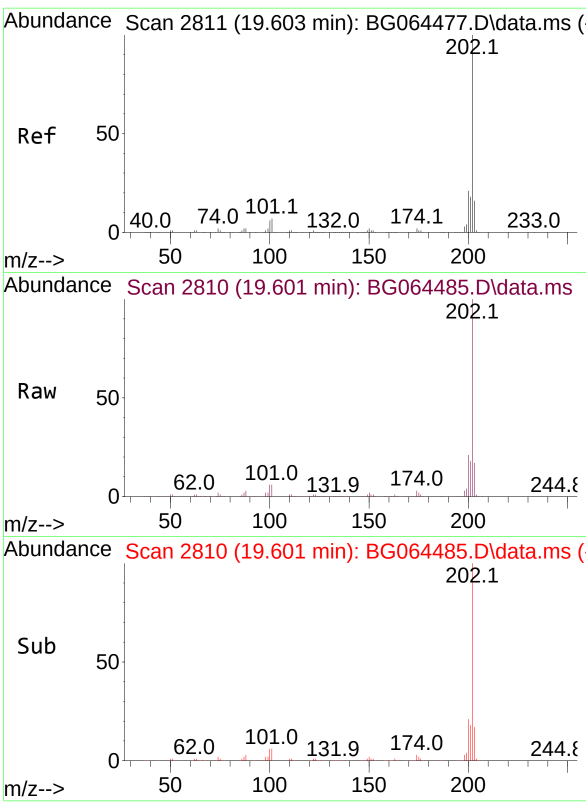
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

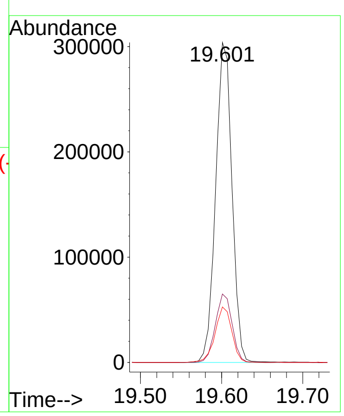


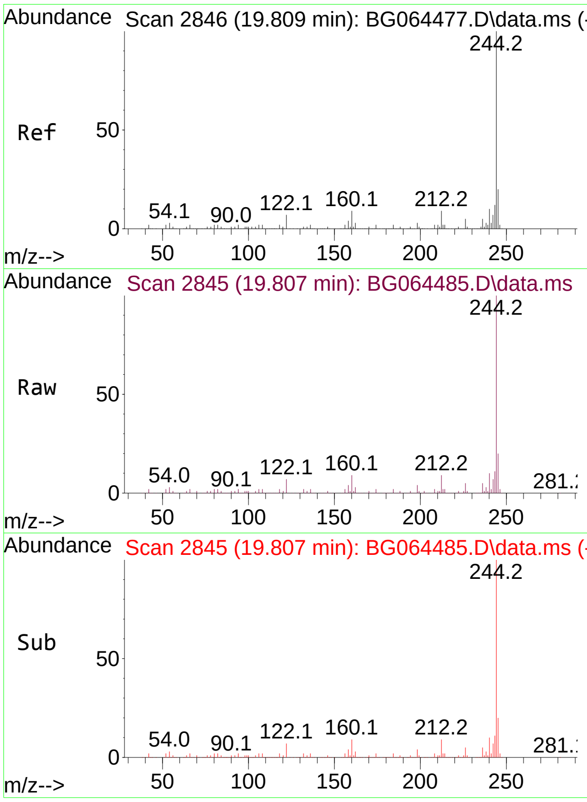

```
#77
Benzidine
Concen:   54.118 ng
RT:  19.425 min  Scan# 2
Delta R.T.  -0.000 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:184 Resp:  208747
Ion  Ratio  Lower  Upper
184  100
185   13.6   10.9   16.3
183   12.8    9.8   14.6
```




```
#78
Pyrene
Concen:   42.262 ng
RT:  19.601 min  Scan# 2810
Delta R.T.  0.000 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:202 Resp:  425142
Ion  Ratio  Lower  Upper
202  100
200   21.4   17.0   25.4
203   17.3   13.0   19.4
```

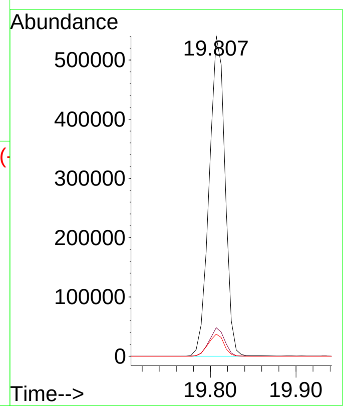





#79
Terphenyl-d14
Concen: 84.866 ng
RT: 19.807 min Scan# 28
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:244 Resp: 695125

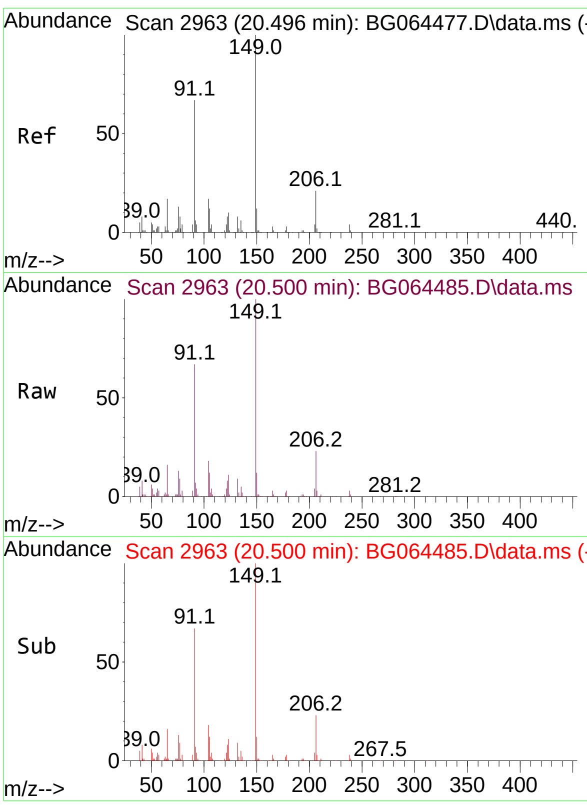
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.9 | 7.0 | 10.6 |
| 122 | 6.9 | 5.6 | 8.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

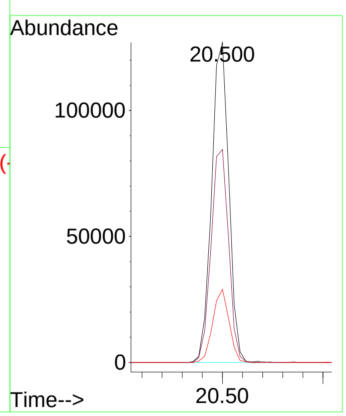
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

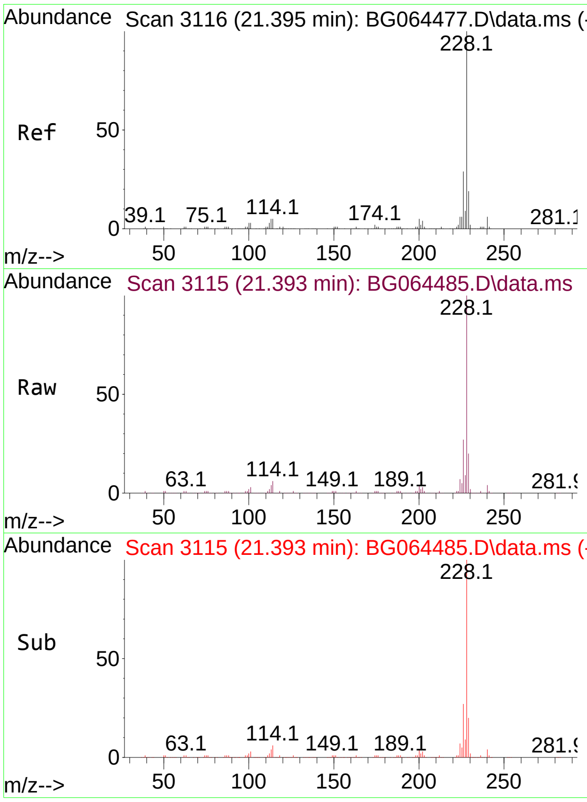



#80
Butylbenzylphthalate
Concen: 42.370 ng
RT: 20.500 min Scan# 2963
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:149 Resp: 151094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 66.5 | 53.7 | 80.5 |
| 206 | 22.8 | 16.6 | 24.8 |

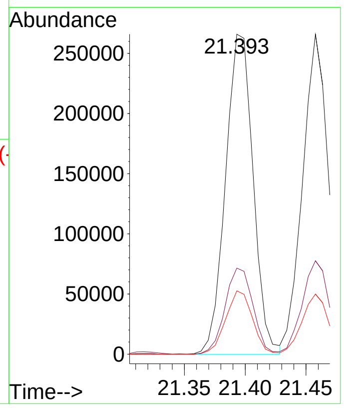





#81
Benzo(a)anthracene
Concen: 42.394 ng
RT: 21.393 min Scan# 31
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:228 Resp: 41960

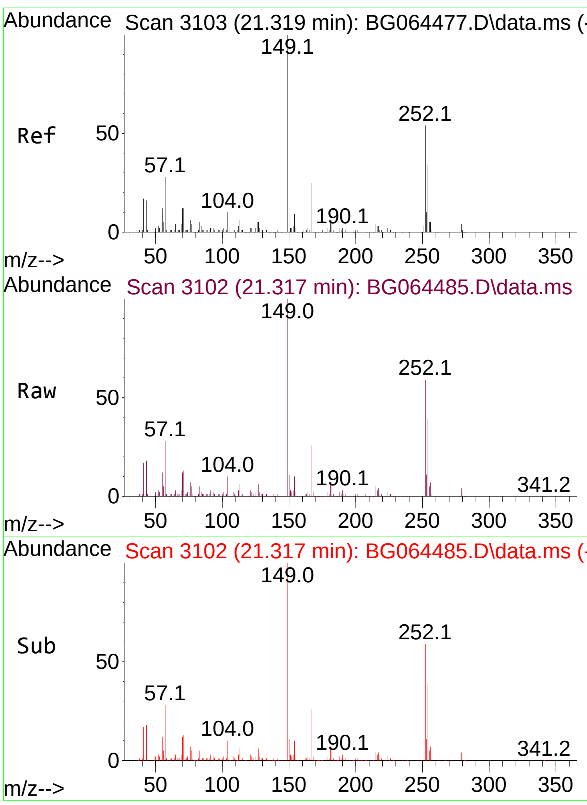
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.9 | 22.8 | 34.2 |
| 229 | 19.8 | 15.2 | 22.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

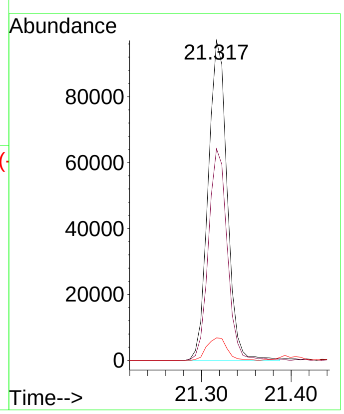
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

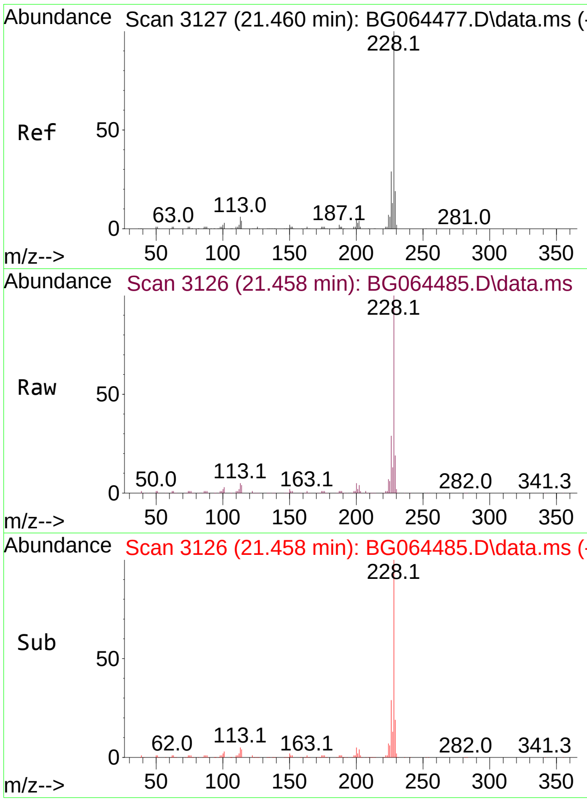



#82
3,3'-Dichlorobenzidine
Concen: 42.584 ng
RT: 21.317 min Scan# 3102
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:252 Resp: 142654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 66.1 | 50.5 | 75.7 |
| 126 | 7.0 | 7.1 | 10.7# |



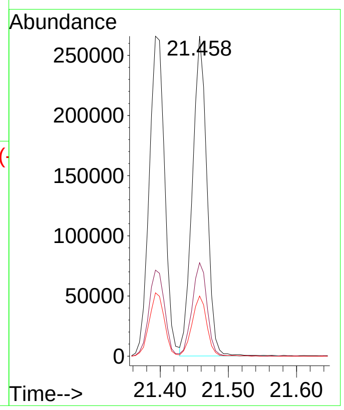


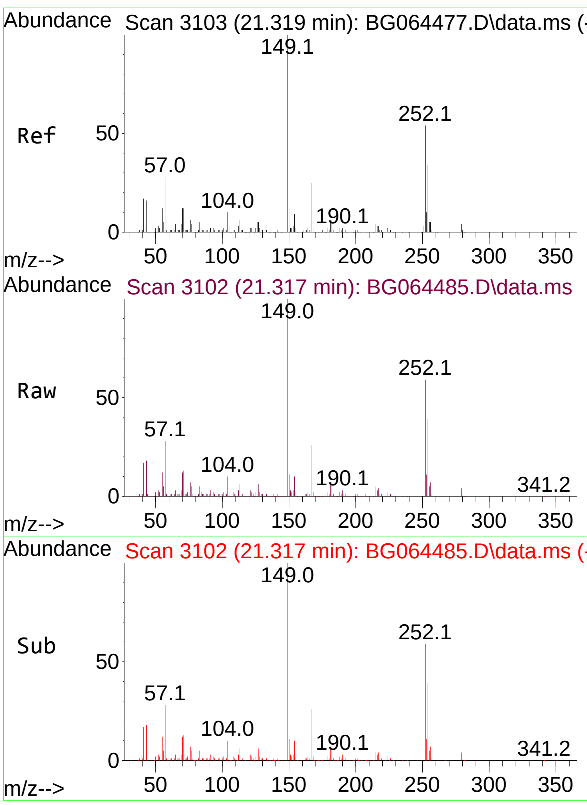

```
#83
Chrysene
Concen:   42.089 ng
RT:  21.458 min  Scan# 31
Delta R.T.  0.006 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:228 Resp:  39506
Ion  Ratio  Lower  Upper
228  100
226   29.2   22.8   34.2
229   18.8   15.4   23.0
```

**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

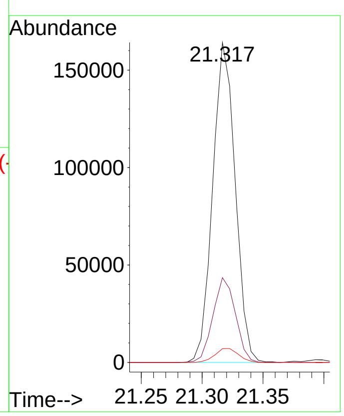
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025



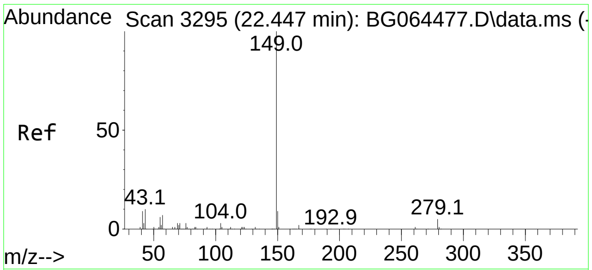

```
#84
Bis(2-ethylhexyl)phthalate
Concen:   41.966 ng
RT:  21.317 min  Scan# 3102
Delta R.T.  0.000 min
Lab File:   BG064485.D
Acq:  3 Oct 2025  13:33

Tgt Ion:149 Resp:  211151
Ion  Ratio  Lower  Upper
149  100
167   26.5   19.7   29.5
279    4.3    3.4    5.2
```

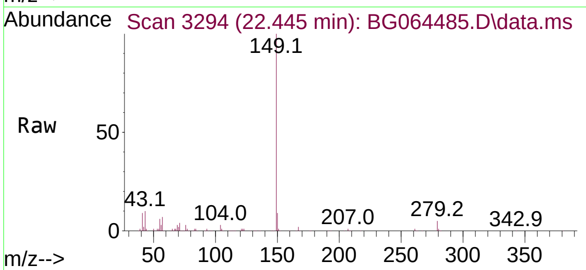


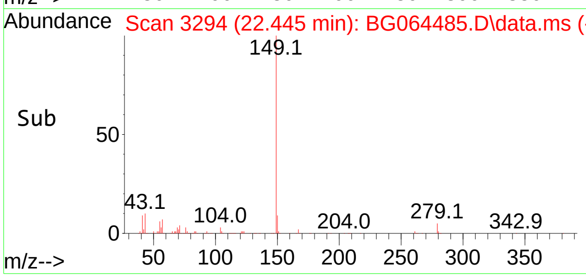
**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025



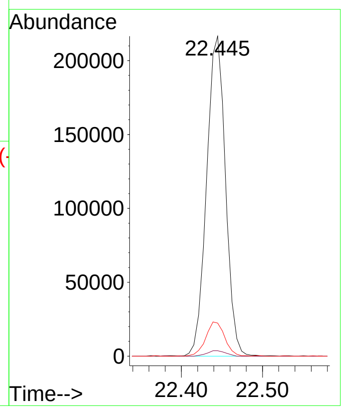



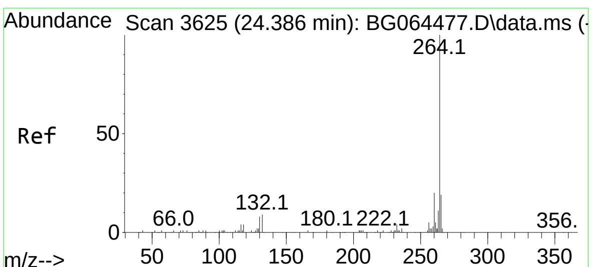



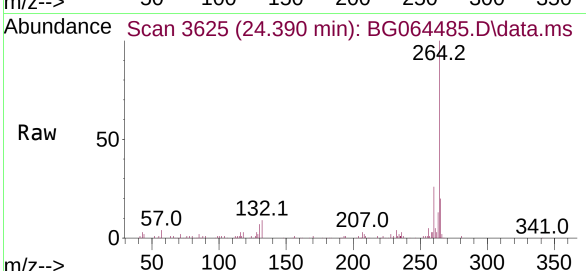

#85
Di-n-octyl phthalate
Concen: 41.513 ng
RT: 22.445 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

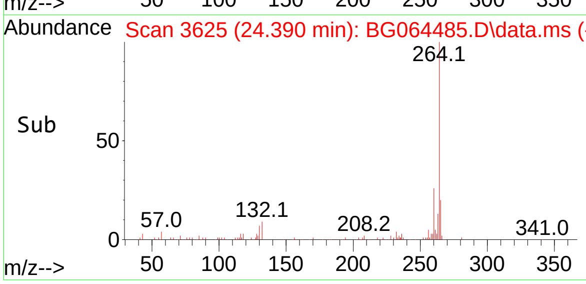
Tgt Ion:149 Resp: 351045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 10.8 | 7.9 | 11.9 |



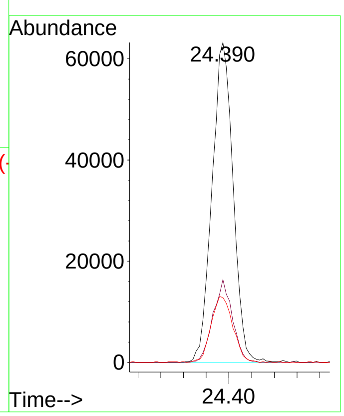



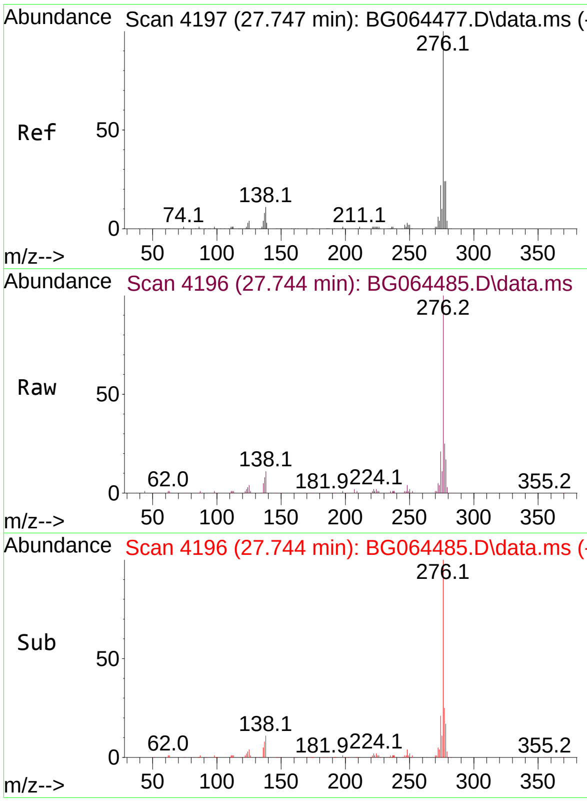

#86
Perylene-d12
Concen: 20.000 ng
RT: 24.390 min Scan# 3625
Delta R.T. 0.000 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:264 Resp: 163411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.9 | 16.2 | 24.4# |
| 265 | 20.3 | 15.0 | 22.4 |



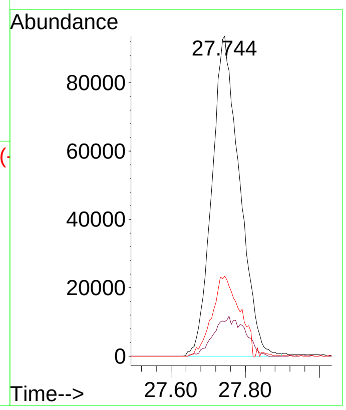
Sample Results: **BG064485.D**




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.733 ng
RT: 27.744 min Scan# 41
Delta R.T. 0.012 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:276 Resp: 48605

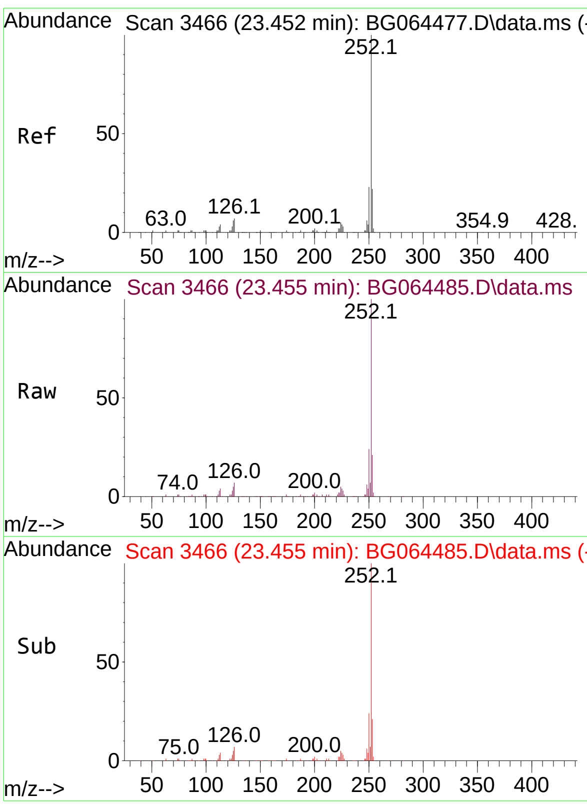
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 14.0 | 10.8 | 16.2 |
| 277 | 24.5 | 20.3 | 30.5 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

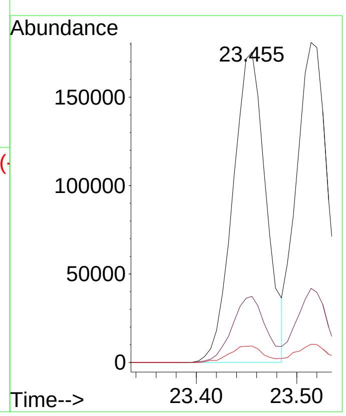
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

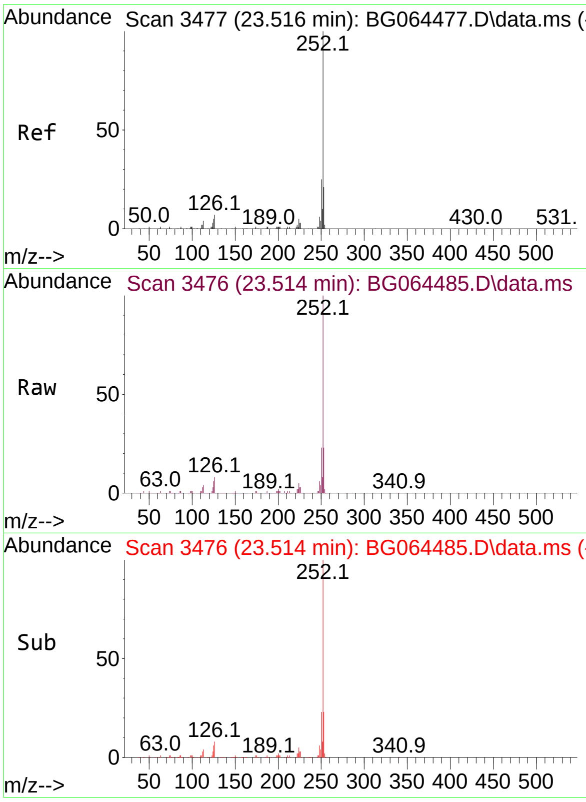



#88
Benzo(b)fluoranthene
Concen: 43.226 ng
RT: 23.455 min Scan# 3466
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:252 Resp: 401845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 17.5 | 26.3 |
| 125 | 5.3 | 4.5 | 6.7 |

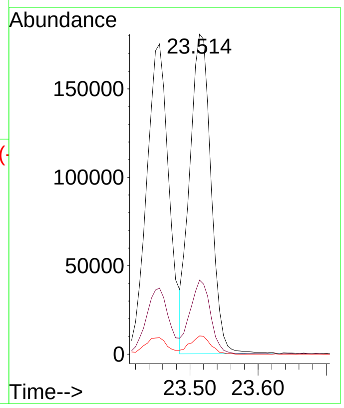





#89
Benzo(k)fluoranthene
Concen: 42.142 ng
RT: 23.514 min Scan# 34
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:252 Resp: 394575

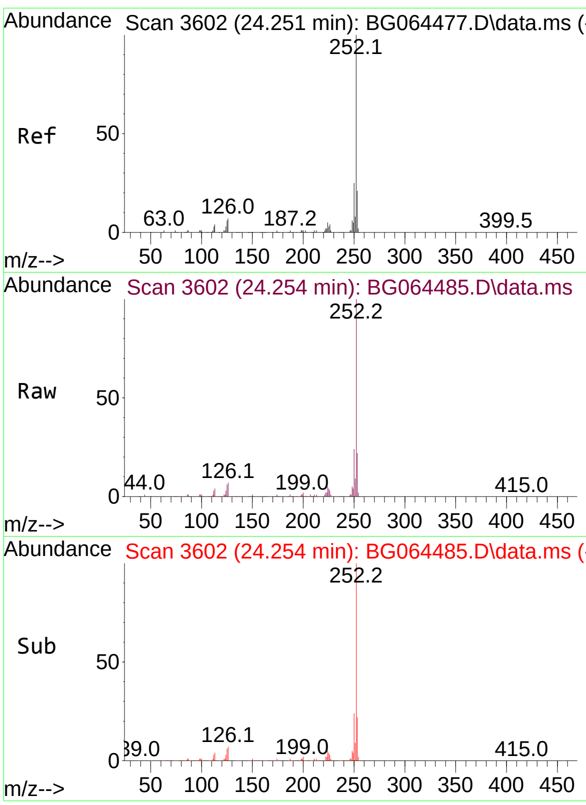
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.4 | 26.2 |
| 125 | 5.7 | 4.0 | 6.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

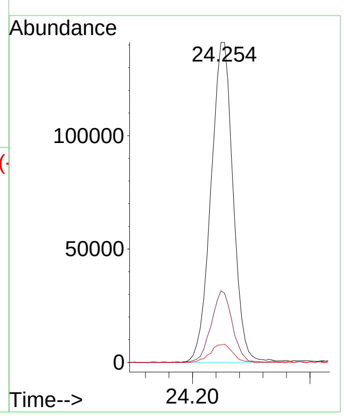
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025



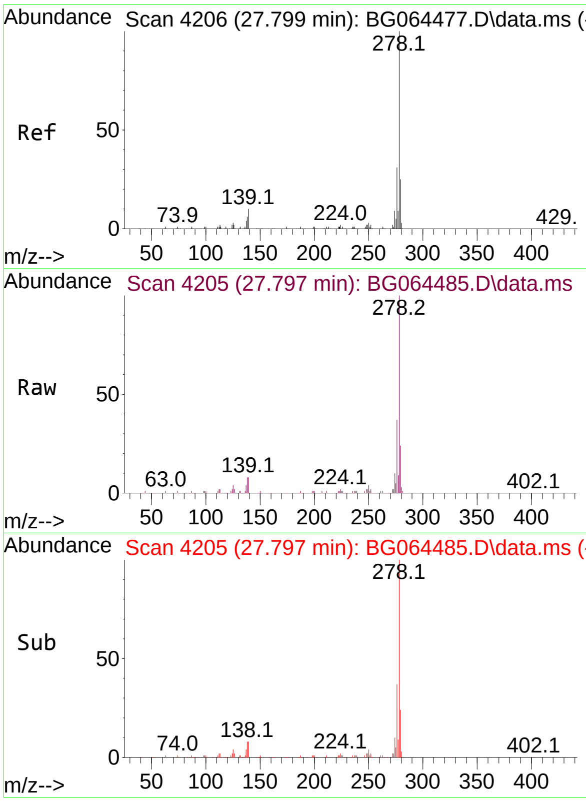

#90
Benzo(a)pyrene
Concen: 43.166 ng
RT: 24.254 min Scan# 3602
Delta R.T. 0.006 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:252 Resp: 369840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.1 | 25.7 |
| 125 | 5.7 | 4.6 | 6.8 |



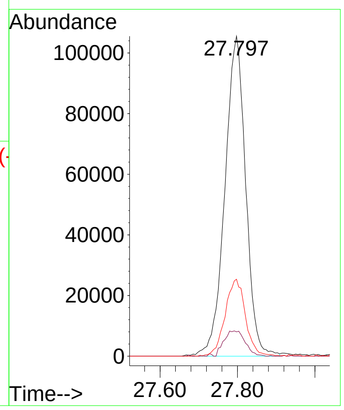
Sample Results: **BG064485.D**




#91
Dibenzo(a,h)anthracene
Concen: 43.430 ng
RT: 27.797 min Scan# 42
Delta R.T. 0.018 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

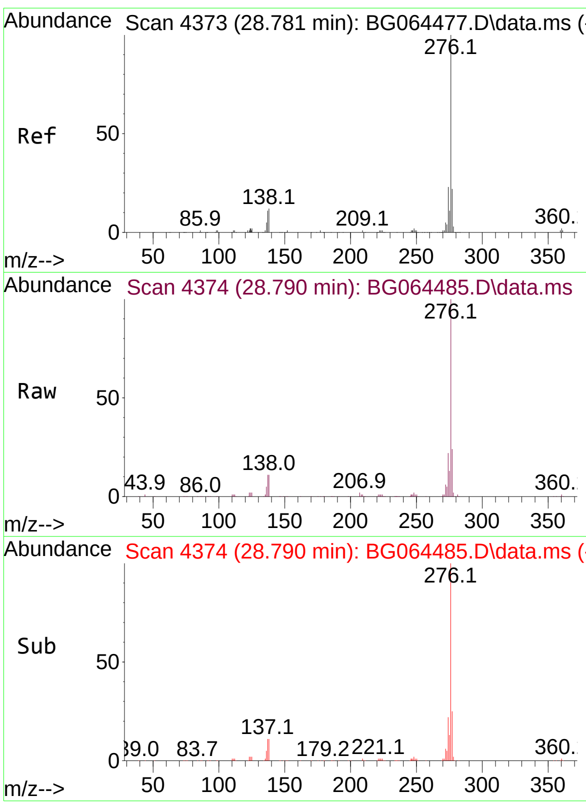
Tgt Ion:278 Resp: 395048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 7.6 | 8.2 | 12.2# |
| 279 | 24.0 | 19.6 | 29.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
SSTDCCC040

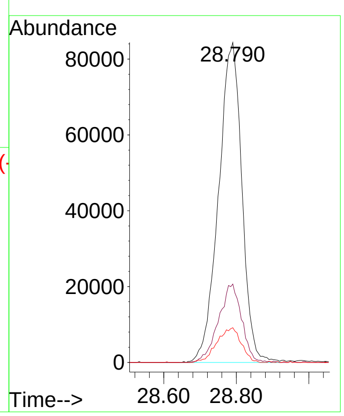
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#92
Benzo(g,h,i)perylene
Concen: 42.717 ng
RT: 28.790 min Scan# 4374
Delta R.T. 0.024 min
Lab File: BG064485.D
Acq: 3 Oct 2025 13:33

Tgt Ion:276 Resp: 377605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.5 | 17.8 | 26.6 |
| 138 | 10.8 | 9.4 | 14.0 |



Evaluate Continuing Calibration Report

Sample Results: **BG064485.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 104 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 40.653 | -1.6 | 103 | 0.00 |
| 3 | | Pyridine | 40.000 | 40.289 | -0.7 | 97 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 41.694 | -4.2 | 105 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 89.475 | -11.8 | 105 | 0.00 |
| 6 | | Aniline | 40.000 | 44.526 | -11.3 | 105 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 88.237 | -10.3 | 102 | 0.01 |
| 8 | | 2-Chlorophenol | 40.000 | 42.952 | -7.4 | 102 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 46.917 | -17.3 | 103 | 0.00 |
| 10 | C | Phenol | 40.000 | 44.228 | -10.6 | 105 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 42.866 | -7.2 | 102 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 44.562 | -11.4 | 106 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 44.608 | -11.5 | 107 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 43.192 | -8.0 | 105 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 44.783 | -12.0 | 108 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 43.812 | -9.5 | 106 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 43.648 | -9.1 | 104 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 43.174 | -7.9 | 107 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 44.227 | -10.6 | 102 | 0.02 |
| 20 | | 3+4-Methylphenols | 40.000 | 44.028 | -10.1 | 104 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 106 | 0.00 |
| 22 | | Acetophenone | 40.000 | 43.179 | -7.9 | 107 | 0.01 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 85.999 | -7.5 | 107 | 0.01 |
| 24 | | Nitrobenzene | 40.000 | 42.194 | -5.5 | 105 | 0.00 |
| 25 | | Isophorone | 40.000 | 41.931 | -4.8 | 104 | 0.01 |
| 26 | C | 2-Nitrophenol | 40.000 | 42.207 | -5.5 | 108 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 42.755 | -6.9 | 107 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 41.958 | -4.9 | 102 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 42.708 | -6.8 | 108 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 43.106 | -7.8 | 108 | 0.00 |
| 31 | | Naphthalene | 40.000 | 42.446 | -6.1 | 105 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 45.121 | -12.8 | 113 | 0.06 |
| 33 | | 4-Chloroaniline | 40.000 | 42.535 | -6.3 | 107 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 41.403 | -3.5 | 106 | 0.00 |
| 35 | | Caprolactam | 40.000 | 43.558 | -8.9 | 112 | 0.04 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 43.183 | -8.0 | 109 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 41.621 | -4.1 | 104 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 40.706 | -1.8 | 103 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 106 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 41.941 | -4.9 | 101 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 43.604 | -9.0 | 107 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 83.770 | -4.7 | 106 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 42.332 | -5.8 | 104 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 44.369 | -10.9 | 111 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 84.661 | -5.8 | 106 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 41.671 | -4.2 | 104 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 42.913 | -7.3 | 106 | 0.00 |

Sample Results: **BG064485.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 48 | 2-Nitroaniline | 40.000 | 42.937 | -7.3 | 105 | 0.00 |
| 49 | Acenaphthylene | 40.000 | 42.571 | -6.4 | 105 | 0.00 |
| 50 | Dimethylphthalate | 40.000 | 41.685 | -4.2 | 106 | 0.00 |
| 51 | 2,6-Dinitrotoluene | 40.000 | 43.138 | -7.8 | 111 | 0.00 |
| 52 C | Acenaphthene | 40.000 | 42.398 | -6.0 | 107 | 0.00 |
| 53 | 3-Nitroaniline | 40.000 | 44.129 | -10.3 | 110 | 0.00 |
| 54 P | 2,4-Dinitrophenol | 40.000 | 37.608 | 6.0 | 114 | 0.00 |
| 55 | Dibenzofuran | 40.000 | 42.419 | -6.0 | 108 | 0.00 |
| 56 P | 4-Nitrophenol | 40.000 | 45.736 | -14.3 | 110 | 0.00 |
| 57 | 2,4-Dinitrotoluene | 40.000 | 43.076 | -7.7 | 108 | 0.00 |
| 58 | Fluorene | 40.000 | 42.672 | -6.7 | 107 | 0.00 |
| 59 | 2,3,4,6-Tetrachlorophenol | 40.000 | 42.283 | -5.7 | 104 | 0.00 |
| 60 | Diethylphthalate | 40.000 | 41.844 | -4.6 | 108 | 0.00 |
| 61 | 4-Chlorophenyl-phenylether | 40.000 | 41.563 | -3.9 | 105 | 0.00 |
| 62 | 4-Nitroaniline | 40.000 | 45.530 | -13.8 | 113 | 0.00 |
| 63 | Azobenzene | 40.000 | 41.906 | -4.8 | 107 | 0.00 |
| 64 I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 109 | 0.00 |
| 65 | 4,6-Dinitro-2-methylphenol | 40.000 | 42.100 | -5.3 | 111 | 0.00 |
| 66 c | n-Nitrosodiphenylamine | 40.000 | 41.856 | -4.6 | 108 | 0.00 |
| 67 | 4-Bromophenyl-phenylether | 40.000 | 42.541 | -6.4 | 108 | 0.00 |
| 68 | Hexachlorobenzene | 40.000 | 41.729 | -4.3 | 107 | 0.00 |
| 69 | Atrazine | 40.000 | 42.302 | -5.8 | 110 | 0.00 |
| 70 C | Pentachlorophenol | 40.000 | 42.750 | -6.9 | 109 | 0.00 |
| 71 | Phenanthrene | 40.000 | 42.560 | -6.4 | 110 | 0.00 |
| 72 | Anthracene | 40.000 | 42.045 | -5.1 | 107 | 0.00 |
| 73 | Carbazole | 40.000 | 43.148 | -7.9 | 108 | 0.00 |
| 74 | Di-n-butylphthalate | 40.000 | 43.402 | -8.5 | 111 | 0.00 |
| 75 C | Fluoranthene | 40.000 | 43.921 | -9.8 | 113 | 0.00 |
| 76 I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 112 | 0.00 |
| 77 | Benzidine | 40.000 | 54.118 | -35.3# | 117 | 0.00 |
| 78 | Pyrene | 40.000 | 42.262 | -5.7 | 111 | 0.00 |
| 79 S | Terphenyl-d14 | 80.000 | 84.866 | -6.1 | 112 | 0.00 |
| 80 | Butylbenzylphthalate | 40.000 | 42.370 | -5.9 | 110 | 0.00 |
| 81 | Benzo(a)anthracene | 40.000 | 42.394 | -6.0 | 112 | 0.00 |
| 82 | 3,3'-Dichlorobenzidine | 40.000 | 42.584 | -6.5 | 113 | 0.00 |
| 83 | Chrysene | 40.000 | 42.089 | -5.2 | 110 | 0.00 |
| 84 | Bis(2-ethylhexyl)phthalate | 40.000 | 41.966 | -4.9 | 111 | 0.00 |
| 85 c | Di-n-octyl phthalate | 40.000 | 41.513 | -3.8 | 110 | 0.00 |
| 86 I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 111 | 0.00 |
| 87 | Indeno(1,2,3-cd)pyrene | 40.000 | 42.733 | -6.8 | 111 | 0.01 |
| 88 | Benzo(b)fluoranthene | 40.000 | 43.226 | -8.1 | 113 | 0.00 |
| 89 | Benzo(k)fluoranthene | 40.000 | 42.142 | -5.4 | 109 | 0.00 |
| 90 C | Benzo(a)pyrene | 40.000 | 43.166 | -7.9 | 112 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 43.430 | -8.6 | 113 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 42.717 | -6.8 | 111 | 0.02 |

Sample Results: **BG064485.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 2 | | 1,4-Dioxane | 0.427 | 0.434 | -1.6 | 103 | 0.00 |
| 3 | | Pyridine | 1.149 | 1.157 | -0.7 | 97 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.833 | 0.868 | -4.2 | 105 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.081 | 1.209 | -11.8 | 105 | 0.00 |
| 6 | | Aniline | 1.832 | 2.039 | -11.3 | 105 | 0.00 |
| 7 | S | Phenol-d6 | 1.452 | 1.602 | -10.3 | 102 | 0.01 |
| 8 | | 2-Chlorophenol | 1.327 | 1.425 | -7.4 | 102 | 0.00 |
| 9 | | Benzaldehyde | 1.289 | 1.512 | -17.3 | 103 | 0.00 |
| 10 | C | Phenol | 1.532 | 1.694 | -10.6 | 105 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.038 | 1.112 | -7.1 | 102 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.452 | 1.617 | -11.4 | 106 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.457 | 1.625 | -11.5 | 107 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.436 | 1.550 | -7.9 | 105 | 0.00 |
| 15 | | Benzyl Alcohol | 1.337 | 1.497 | -12.0 | 108 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.672 | 1.832 | -9.6 | 106 | 0.00 |
| 17 | | 2-Methylphenol | 1.109 | 1.211 | -9.2 | 104 | 0.00 |
| 18 | | Hexachloroethane | 0.575 | 0.621 | -8.0 | 107 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 0.971 | 1.074 | -10.6 | 102 | 0.02 |
| 20 | | 3+4-Methylphenols | 1.548 | 1.704 | -10.1 | 104 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 22 | | Acetophenone | 0.484 | 0.523 | -8.1 | 107 | 0.01 |
| 23 | S | Nitrobenzene-d5 | 0.372 | 0.400 | -7.5 | 107 | 0.01 |
| 24 | | Nitrobenzene | 0.371 | 0.391 | -5.4 | 105 | 0.00 |
| 25 | | Isophorone | 0.674 | 0.706 | -4.7 | 104 | 0.01 |
| 26 | C | 2-Nitrophenol | 0.185 | 0.195 | -5.4 | 108 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.282 | 0.301 | -6.7 | 107 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.343 | 0.360 | -5.0 | 102 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.326 | 0.348 | -6.7 | 108 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.356 | 0.383 | -7.6 | 108 | 0.00 |
| 31 | | Naphthalene | 1.030 | 1.093 | -6.1 | 105 | 0.00 |
| 32 | | Benzoic acid | 0.216 | 0.244 | -13.0 | 113 | 0.06 |
| 33 | | 4-Chloroaniline | 0.395 | 0.420 | -6.3 | 107 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.304 | 0.315 | -3.6 | 106 | 0.00 |
| 35 | | Caprolactam | 0.112 | 0.122 | -8.9 | 112 | 0.04 |
| 36 | C | 4-Chloro-3-methylphenol | 0.397 | 0.428 | -7.8 | 109 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.791 | 0.823 | -4.0 | 104 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.788 | 0.802 | -1.8 | 103 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.646 | 0.677 | -4.8 | 101 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.338 | 0.368 | -8.9 | 107 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.363 | 0.380 | -4.7 | 106 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.413 | 0.437 | -5.8 | 104 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.461 | 0.511 | -10.8 | 111 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.357 | 1.436 | -5.8 | 106 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.438 | 1.499 | -4.2 | 104 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.074 | 1.152 | -7.3 | 106 | 0.00 |

Sample Results: **BG064485.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 48 | 2-Nitroaniline | 0.367 | 0.393 | -7.1 | 105 | 0.00 |
| 49 | Acenaphthylene | 1.594 | 1.697 | -6.5 | 105 | 0.00 |
| 50 | Dimethylphthalate | 1.566 | 1.632 | -4.2 | 106 | 0.00 |
| 51 | 2,6-Dinitrotoluene | 0.326 | 0.352 | -8.0 | 111 | 0.00 |
| 52 C | Acenaphthene | 1.108 | 1.174 | -6.0 | 107 | 0.00 |
| 53 | 3-Nitroaniline | 0.301 | 0.332 | -10.3 | 110 | 0.00 |
| 54 P | 2,4-Dinitrophenol | 0.237 | 0.222 | 6.3 | 114 | 0.00 |
| 55 | Dibenzofuran | 1.829 | 1.939 | -6.0 | 108 | 0.00 |
| 56 P | 4-Nitrophenol | 0.237 | 0.271 | -14.3 | 110 | 0.00 |
| 57 | 2,4-Dinitrotoluene | 0.499 | 0.537 | -7.6 | 108 | 0.00 |
| 58 | Fluorene | 1.520 | 1.622 | -6.7 | 107 | 0.00 |
| 59 | 2,3,4,6-Tetrachlorophenol | 0.470 | 0.497 | -5.7 | 104 | 0.00 |
| 60 | Diethylphthalate | 1.680 | 1.758 | -4.6 | 108 | 0.00 |
| 61 | 4-Chlorophenyl-phenylether | 0.830 | 0.863 | -4.0 | 105 | 0.00 |
| 62 | 4-Nitroaniline | 0.314 | 0.357 | -13.7 | 113 | 0.00 |
| 63 | Azobenzene | 1.301 | 1.363 | -4.8 | 107 | 0.00 |
| 64 I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 65 | 4,6-Dinitro-2-methylphenol | 0.139 | 0.147 | -5.8 | 111 | 0.00 |
| 66 c | n-Nitrosodiphenylamine | 0.534 | 0.559 | -4.7 | 108 | 0.00 |
| 67 | 4-Bromophenyl-phenylether | 0.235 | 0.250 | -6.4 | 108 | 0.00 |
| 68 | Hexachlorobenzene | 0.269 | 0.281 | -4.5 | 107 | 0.00 |
| 69 | Atrazine | 0.238 | 0.251 | -5.5 | 110 | 0.00 |
| 70 C | Pentachlorophenol | 0.157 | 0.168 | -7.0 | 109 | 0.00 |
| 71 | Phenanthrene | 1.046 | 1.113 | -6.4 | 110 | 0.00 |
| 72 | Anthracene | 1.049 | 1.103 | -5.1 | 107 | 0.00 |
| 73 | Carbazole | 0.907 | 0.978 | -7.8 | 108 | 0.00 |
| 74 | Di-n-butylphthalate | 1.107 | 1.201 | -8.5 | 111 | 0.00 |
| 75 C | Fluoranthene | 1.250 | 1.372 | -9.8 | 113 | 0.00 |
| 76 I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 77 | Benzidine | 0.498 | 0.673 | -35.1# | 117 | 0.00 |
| 78 | Pyrene | 1.298 | 1.371 | -5.6 | 111 | 0.00 |
| 79 S | Terphenyl-d14 | 1.057 | 1.121 | -6.1 | 112 | 0.00 |
| 80 | Butylbenzylphthalate | 0.460 | 0.487 | -5.9 | 110 | 0.00 |
| 81 | Benzo(a)anthracene | 1.277 | 1.353 | -6.0 | 112 | 0.00 |
| 82 | 3,3'-Dichlorobenzidine | 0.432 | 0.460 | -6.5 | 113 | 0.00 |
| 83 | Chrysene | 1.211 | 1.274 | -5.2 | 110 | 0.00 |
| 84 | Bis(2-ethylhexyl)phthalate | 0.649 | 0.681 | -4.9 | 111 | 0.00 |
| 85 c | Di-n-octyl phthalate | 1.091 | 1.132 | -3.8 | 110 | 0.00 |
| 86 I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 87 | Indeno(1,2,3-cd)pyrene | 1.392 | 1.487 | -6.8 | 111 | 0.01 |
| 88 | Benzo(b)fluoranthene | 1.138 | 1.230 | -8.1 | 113 | 0.00 |
| 89 | Benzo(k)fluoranthene | 1.146 | 1.207 | -5.3 | 109 | 0.00 |
| 90 C | Benzo(a)pyrene | 1.049 | 1.132 | -7.9 | 112 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 1.113 | 1.209 | -8.6 | 113 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 1.082 | 1.155 | -6.7 | 111 | 0.02 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064485.D
Acq On : 3 Oct 2025 13:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_G
**LabSampleId :**
SSTDCCC040

Quant Time: Oct 03 14:09:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

# QC SAMPLE DATA

DFTPP

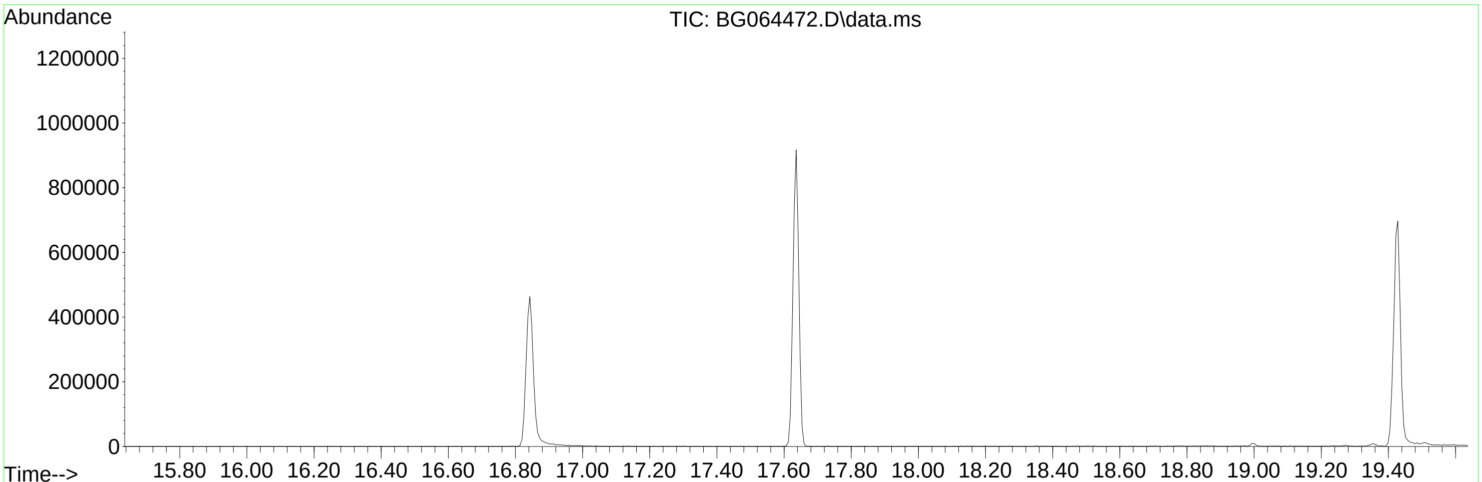
Sample Results: **BG064472.D**

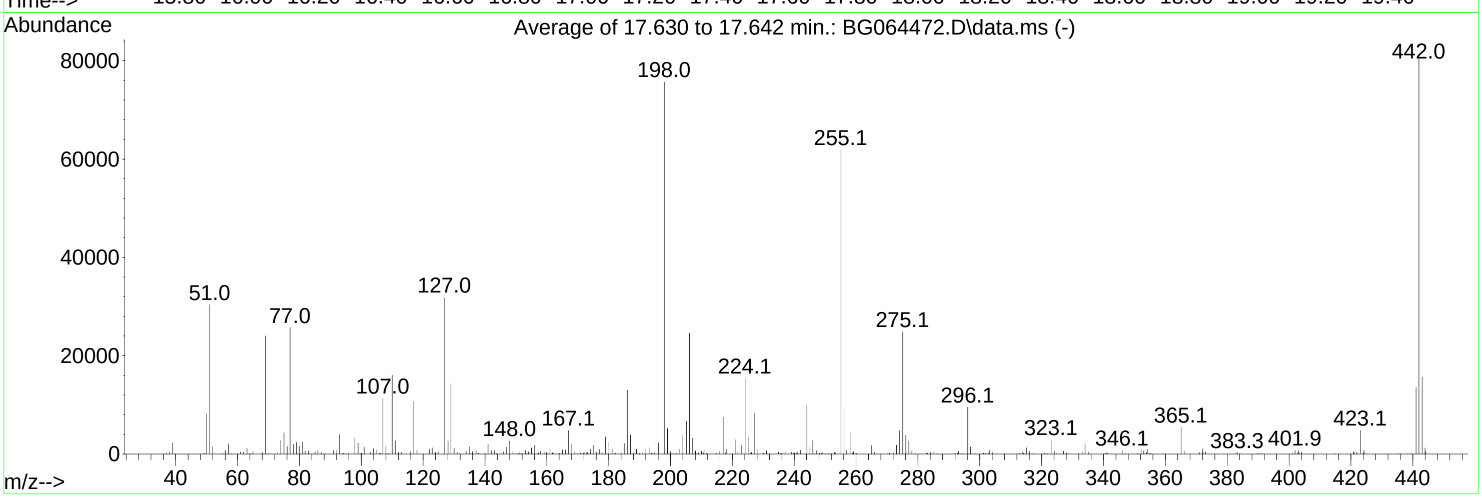
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100225\
Data File : BG064472.D
Acq On : 2 Oct 2025 8:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Oct 02 16:40:42 2025




AutoFind: Scans 2475, 2476, 2477; Background Corrected with Scan 2468

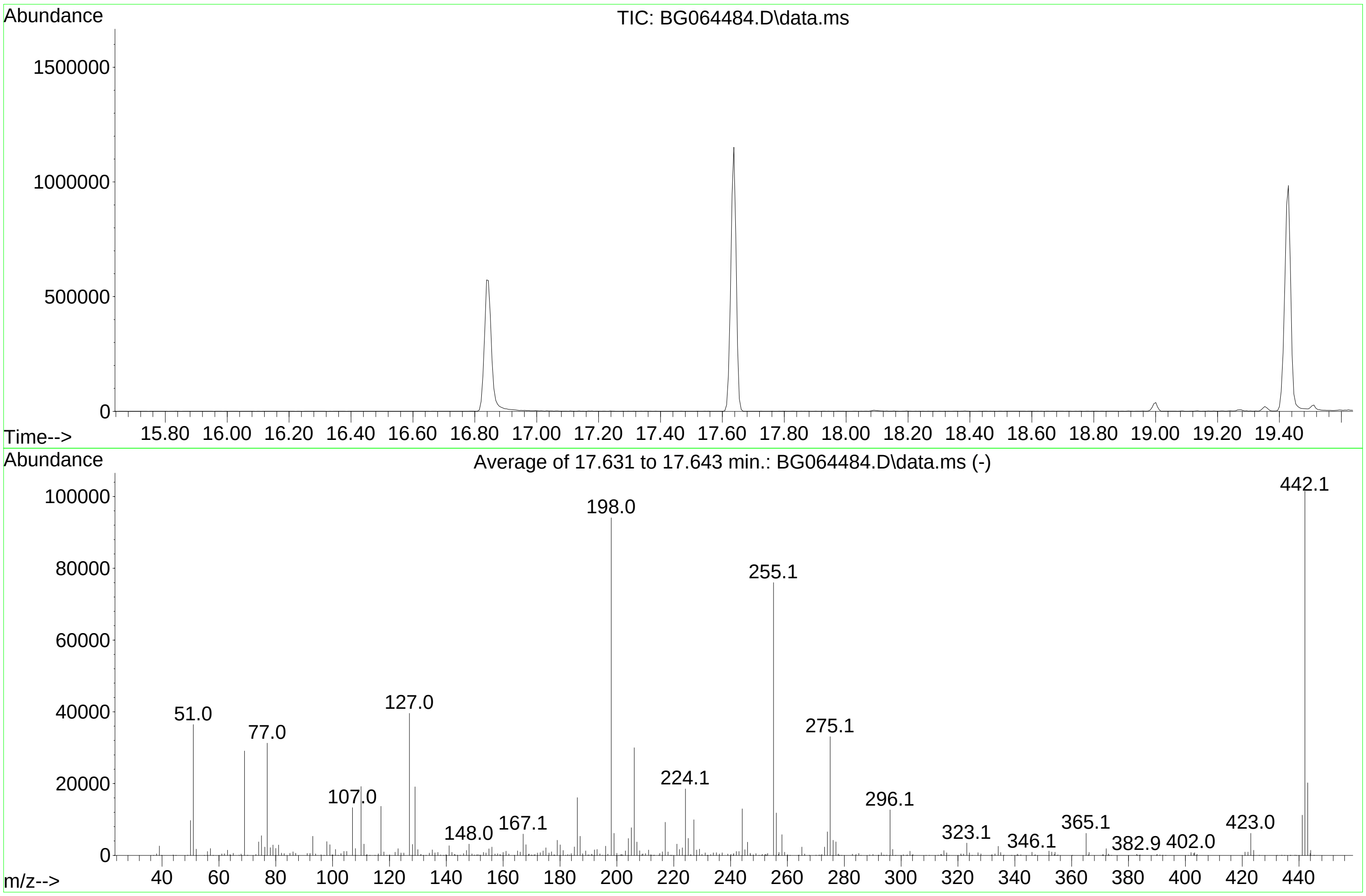
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.1 | 271 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 24008 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 100 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 75675 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 5168 | PASS |
| 365 | 198 | 1 | 100 | 7.1 | 5406 | PASS |
| 441 | 443 | 0.01 | 150 | 86.2 | 13521 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 80341 | PASS |
| 443 | 442 | 15 | 24 | 19.5 | 15684 | PASS |

DFTPP

Sample Results: **BG064484.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064484.D
Acq On    :  3 Oct 2025  12:52
Operator  : RC/JU
Sample    : DFTPP
Misc      :
ALS Vial  : 1   Sample Multiplier: 1

Integration File: rteint.p

Method    : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Title     : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update  : Thu Oct 02 16:40:42 2025
```

**Instrument :**
BNA_G
**ClientSampleId :**
DFTPP




AutoFind: Scans 2475, 2476, 2477; Background Corrected with Scan 2468

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.4 | 409 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 29101 | PASS |
| 70 | 69 | 0.00 | 2 | 0.3 | 85 | PASS |
| 197 | 198 | 0.00 | 2 | 0.4 | 350 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 94096 | PASS |
| 199 | 198 | 5 | 9 | 6.5 | 6146 | PASS |
| 365 | 198 | 1 | 100 | 6.5 | 6153 | PASS |
| 441 | 443 | 0.01 | 150 | 55.5 | 11215 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 101485 | PASS |
| 443 | 442 | 15 | 24 | 19.9 | 20196 | PASS |

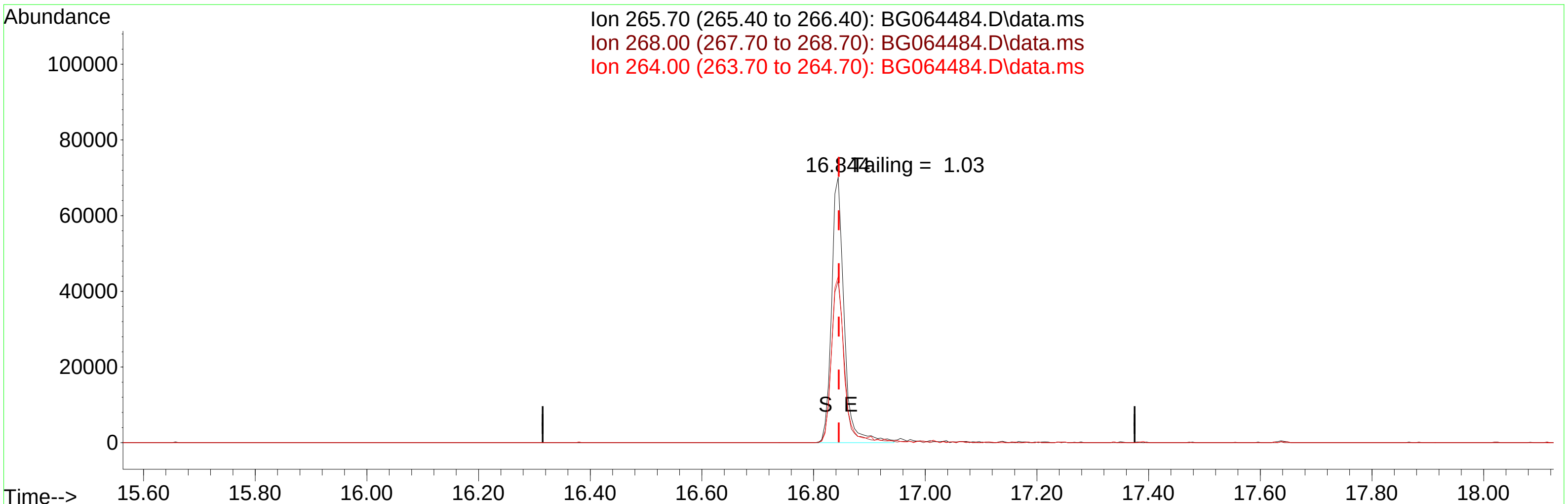
Quantitation Report (Qedit)

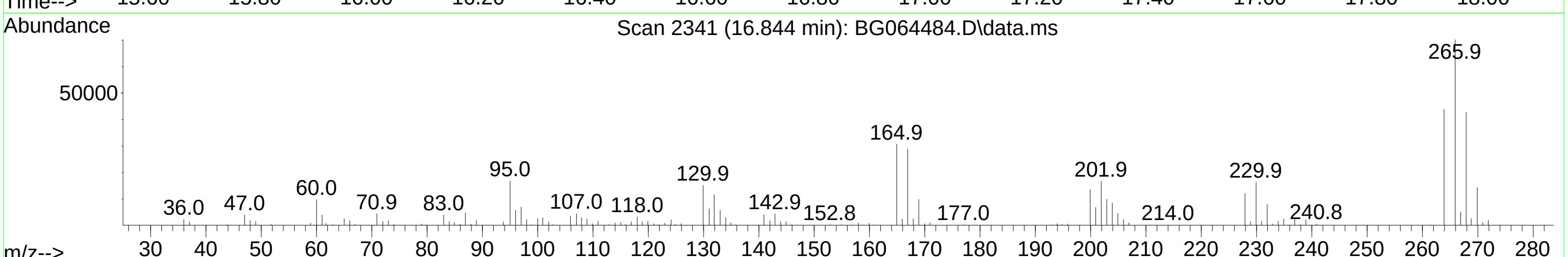
Sample Results: **BG064484.D**

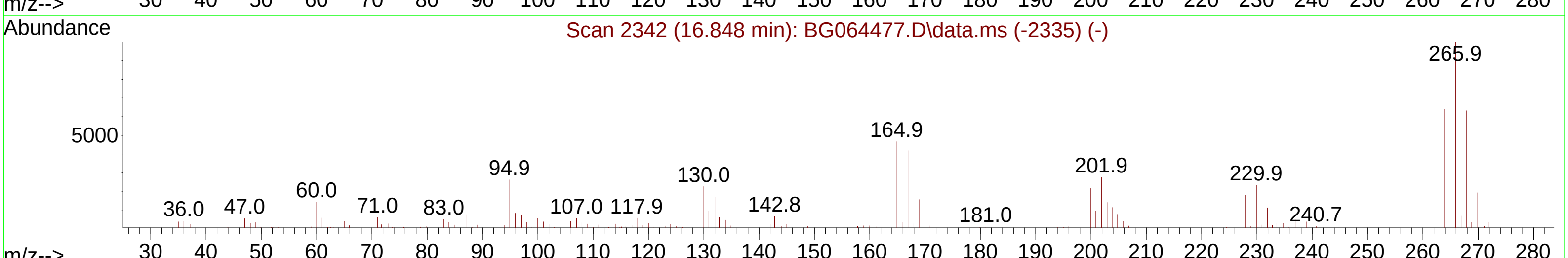
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064484.D
Acq On : 3 Oct 2025 12:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** DFTPP

Quant Time: Oct 03 13:30:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration




TIC: BG064484.D\data.ms

**(70) Pentachlorophenol (C)**

**16.844min (-0.001) 67536.73 ng**

**response 110600**

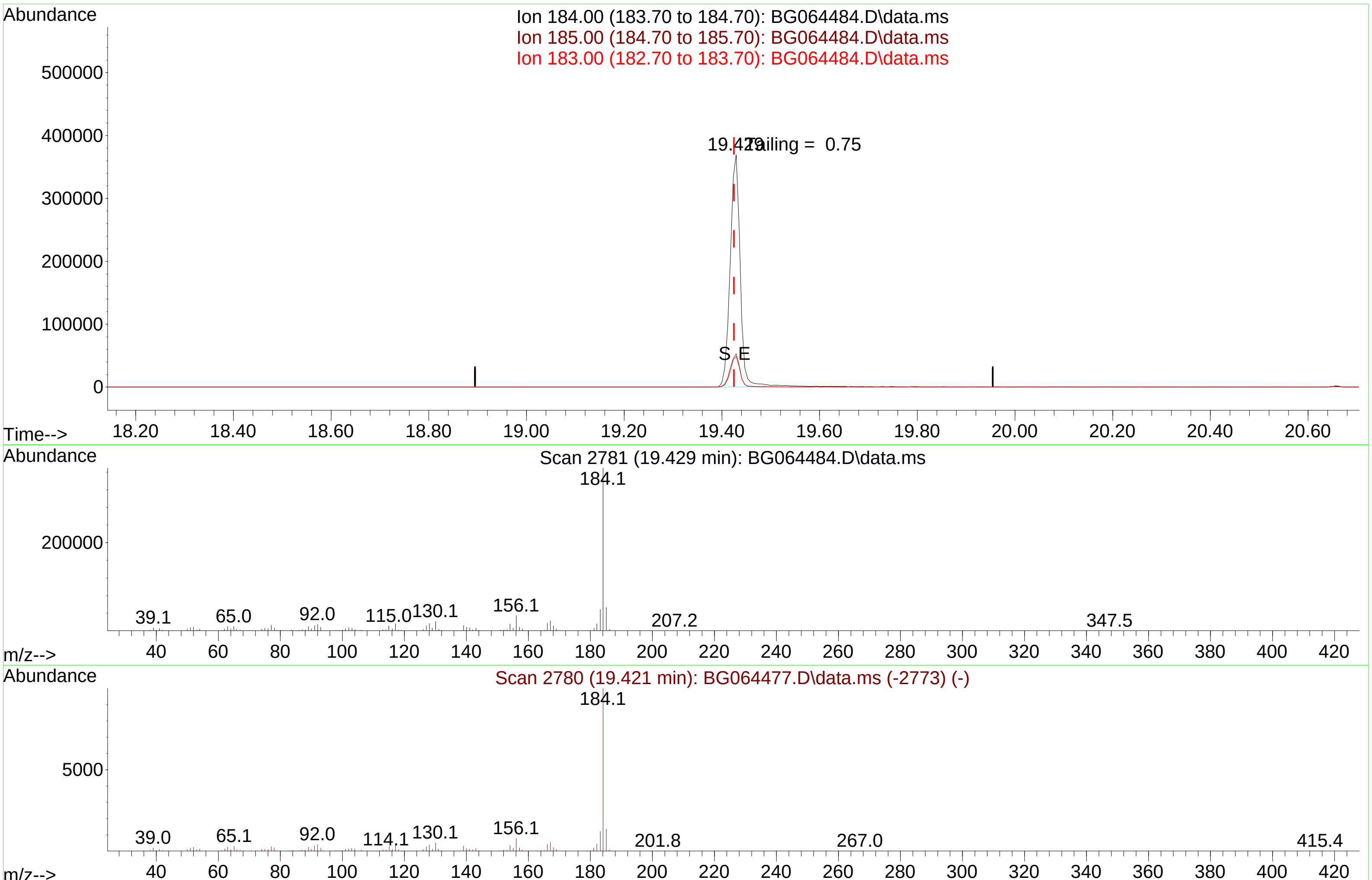
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.20 | 60.92 |
| 264.00 | 64.00 | 62.53 |
| 0.00 | 0.00 | 0.00 |

Sample Results: **BG064484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064484.D
Acq On : 3 Oct 2025 12:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
DFTPP

Quant Time: Oct 03 13:30:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration




**(77) Benzidine**

**19.429min (+ 0.004) 28542.55 ng**

**response 531970**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 13.60 | 14.34 |
| 183.00 | 12.20 | 13.17 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 10/3/2025 | BNA_G | BG064484.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 369876 | 20.657 |
| DDD | 5315 | 20.217 |
| DDE | 294 | 19.711 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 5609 | 375485 | 1.49 |
| | | |

**Instrument :**
BNA_G
**ClientSampleId :**
DFTPP

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | ANN | Date Received: | |
| Client Sample ID: | PB169973BL | SDG No.: | Q3274 |
| Lab Sample ID: | PB169973BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064488.D | 1 | 10/03/25 08:35 | 10/03/25 15:35 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 3.90 | U | 3.90 | 10.0 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.81 | U | 0.81 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.30 | U | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 0.74 | U | 0.74 | 5.00 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.40 | U | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 0.65 | U | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 0.76 | U | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 0.68 | U | 0.68 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 0.84 | U | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 0.54 | U | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.10 | U | 1.10 | 10.0 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 0.56 | U | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 3.60 | U | 3.60 | 10.0 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.53 | U | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.61 | U | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.61 | U | 0.61 | 5.00 | ug/L |
| 208-96-8 | Acenaphthylene | 0.75 | U | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 0.92 | U | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.10 | U | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.55 | U | 0.55 | 5.00 | ug/L |
| 132-64-9 | Dibenzofuran | 0.61 | U | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 0.69 | U | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.68 | U | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.63 | U | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 1.50 | U | 1.50 | 5.00 | ug/L |

Raw Data: **BG064488.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | ANN | Date Received: | |
| Client Sample ID: | PB169973BL | SDG No.: | Q3274 |
| Lab Sample ID: | PB169973BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064488.D | 1 | 10/03/25 08:35 | 10/03/25 15:35 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 0.58 | U | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.40 | U | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.00 | U | 1.00 | 5.00 | ug/L |
| 85-01-8 | Phenanthrene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 0.61 | U | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 0.72 | U | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.20 | U | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 0.82 | U | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 0.93 | U | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.45 | U | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.44 | U | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.60 | U | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.30 | U | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 0.49 | U | 0.49 | 5.00 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 0.48 | U | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 0.55 | U | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.59 | U | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.67 | U | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 0.69 | U | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.00 | U | 1.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 94.0 | | 30 (67) - 130 (132) | 94% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.7 | | 30 (52) - 130 (132) | 91% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 98.8 | | 30 (42) - 130 (152) | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 17000 | 7.824 | | | |

Raw Data: **BG064488.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | ANN | Date Received: | |
| Client Sample ID: | PB169973BL | SDG No.: | Q3274 |
| Lab Sample ID: | PB169973BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064488.D | 1 | 10/03/25 08:35 | 10/03/25 15:35 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 1146-65-2 | Naphthalene-d8 | 71500 | 10.609 | | | |
| 15067-26-2 | Acenaphthene-d10 | 57100 | 14.446 | | | |
| 1517-22-2 | Phenanthrene-d10 | 145000 | 17.189 | | | |
| 1719-03-5 | Chrysene-d12 | 149000 | 21.408 | | | |
| 1520-96-3 | Perylene-d12 | 158000 | 24.387 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BG064488.D**

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064488.D
Acq On : 3 Oct 2025 15:35
Operator : RC/JU
Sample : PB169973BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 16:20:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.824 | 152 | 16965 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.609 | 136 | 71465 | 20.000 | ng | # 0.00 |
| 39) Acenaphthene-d10 | 14.446 | 164 | 57081 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.189 | 188 | 145353 | 20.000 | ng | # 0.00 |
| 76) Chrysene-d12 | 21.408 | 240 | 149348 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.387 | 264 | 157878 | 20.000 | ng | # 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.415 | 112 | 148699 | 162.213 | ng | 0.00 |
| 7) Phenol-d6 | 7.001 | 99 | 185155 | 150.303 | ng | 0.02 |
| 23) Nitrobenzene-d5 | 8.976 | 82 | 124977 | 94.032 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.938 | 330 | 142586 | 137.808 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.071 | 172 | 351343 | 90.727 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.810 | 244 | 779476 | 98.773 | ng | 0.00 |

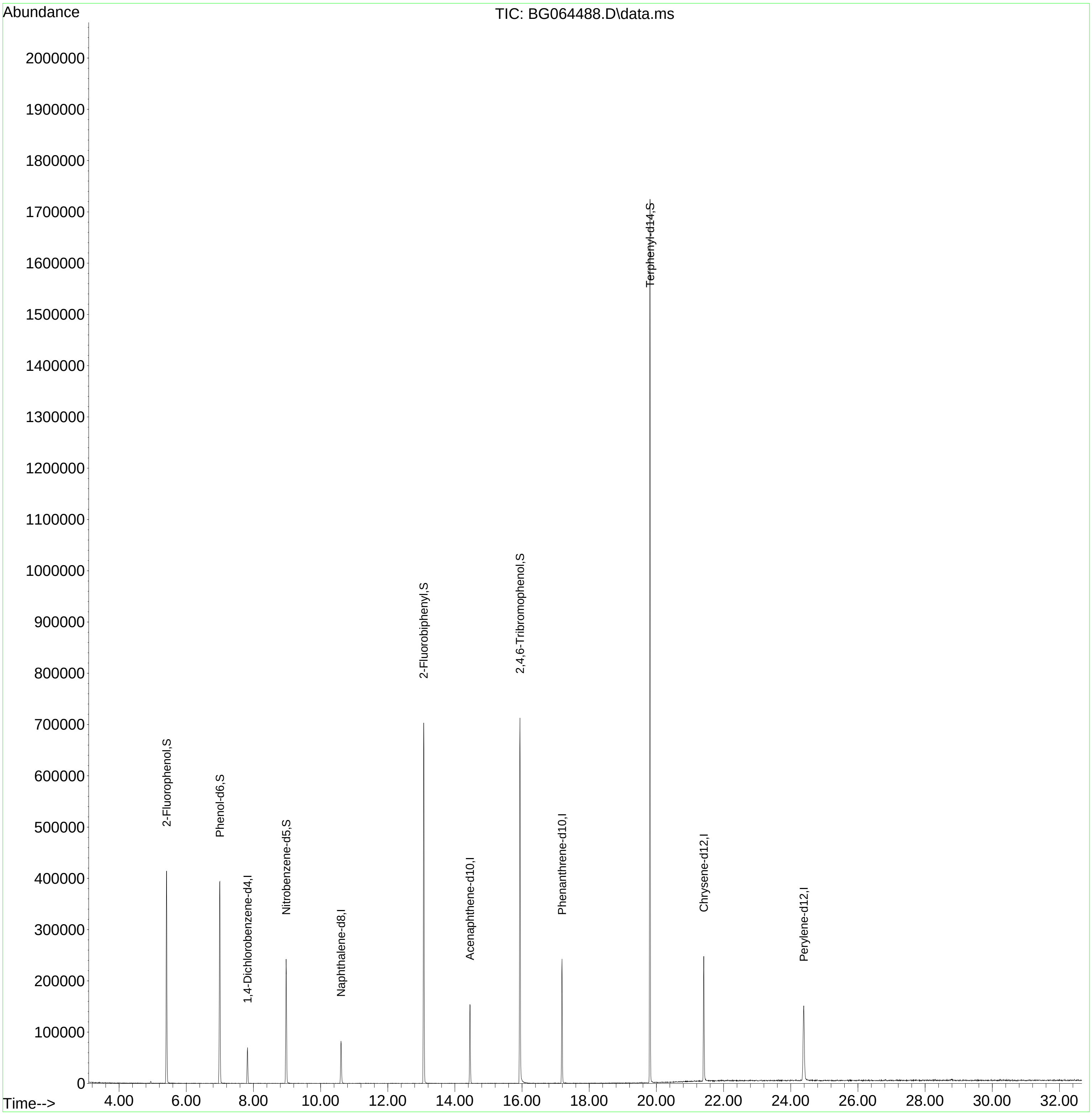
| Target Compounds | Qvalue |
|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

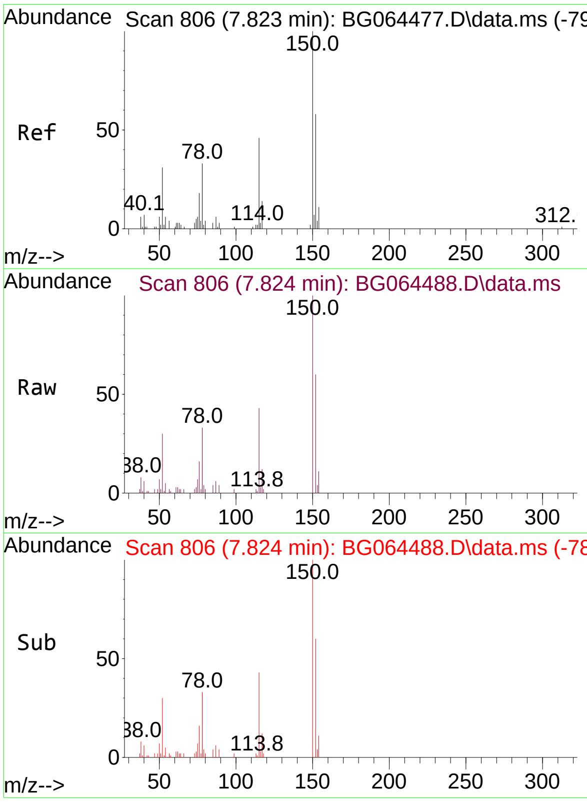
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064488.D
Acq On : 3 Oct 2025 15:35
Operator : RC/JU
Sample : PB169973BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

| | |
|---|---|
| **Instrument :** | BNA_G |
| **ClientSampleId :** | PB169973BL |

Quant Time: Oct 03 16:20:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration



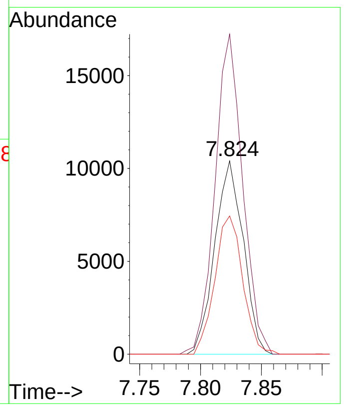
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

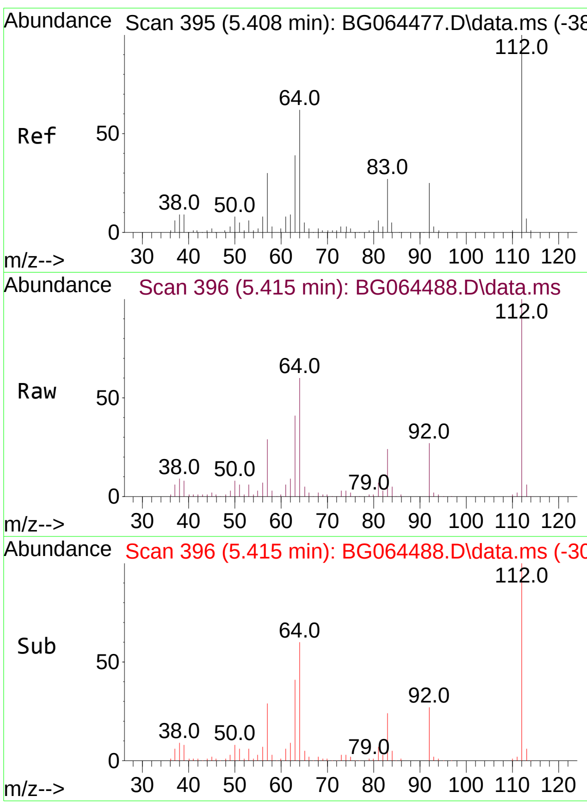



#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:   7.824 min   Scan# 8
Delta R.T.   0.004 min
Lab File:   BG064488.D
Acq:   3 Oct 2025   15:35

Tgt Ion:152 Resp:   16965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 165.7 | 138.6 | 207.8 |
| 115 | 71.5 | 63.4 | 95.2 |

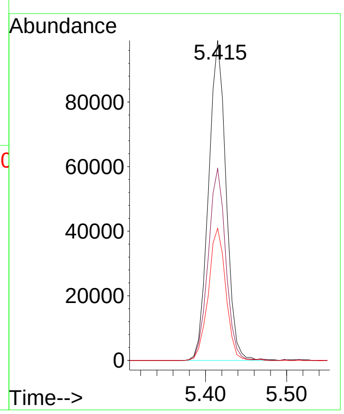


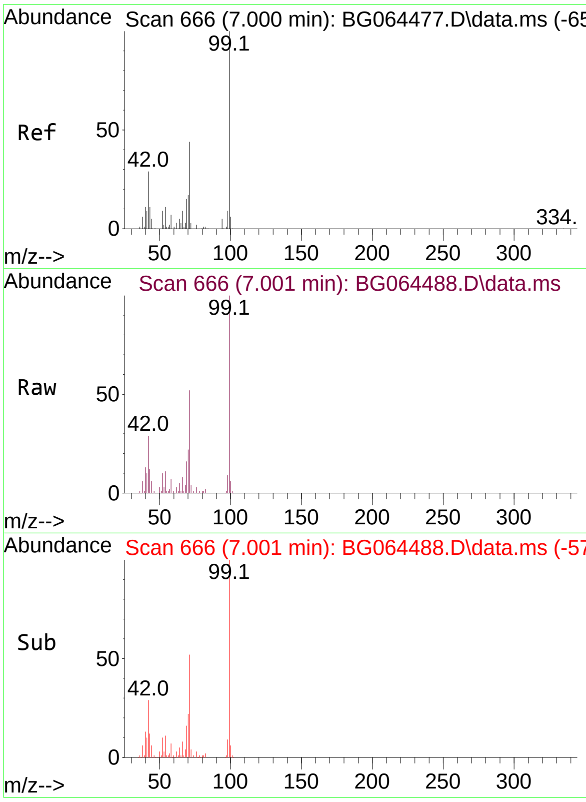

#5
2-Fluorophenol
Concen:   162.213 ng
RT:   5.415 min   Scan# 396
Delta R.T.   0.009 min
Lab File:   BG064488.D
Acq:   3 Oct 2025   15:35

Tgt Ion:112 Resp:   148699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.9 | 49.8 | 74.8 |
| 63 | 41.3 | 31.3 | 46.9 |



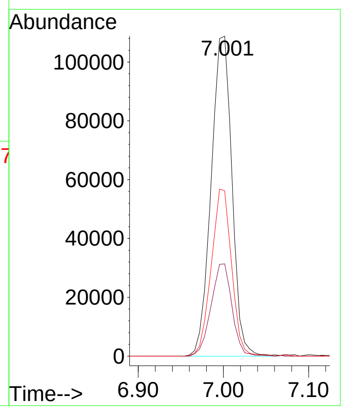
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

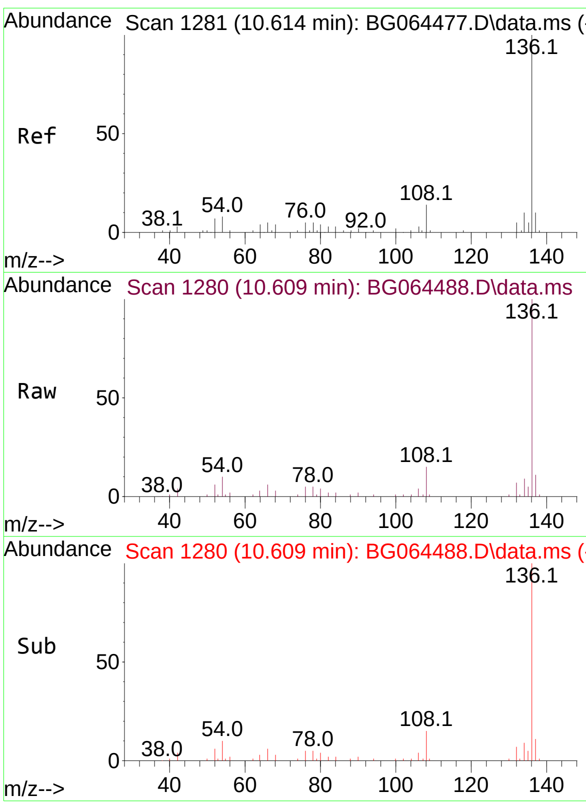



#7
Phenol-d6
Concen: 150.303 ng
RT: 7.001 min Scan# 6
Delta R.T. 0.015 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion: 99 Resp: 185155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 28.8 | 22.9 | 34.3 |
| 71 | 51.7 | 35.4 | 53.2 |

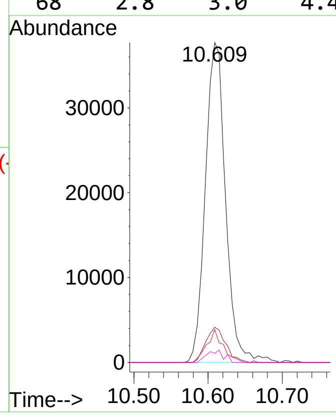


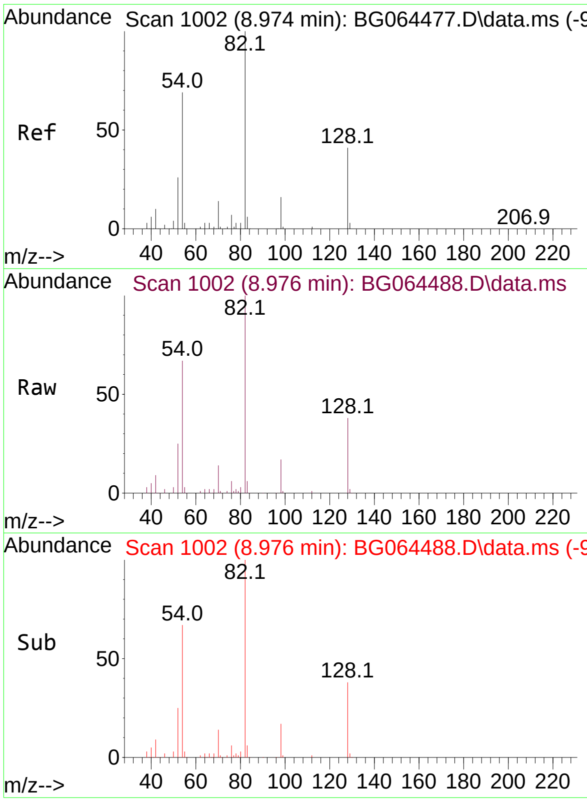

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.609 min Scan# 1280
Delta R.T. 0.003 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:136 Resp: 71465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.3 | 12.5 |
| 54 | 10.3 | 6.2 | 9.4# |
| 68 | 2.8 | 3.0 | 4.4# |



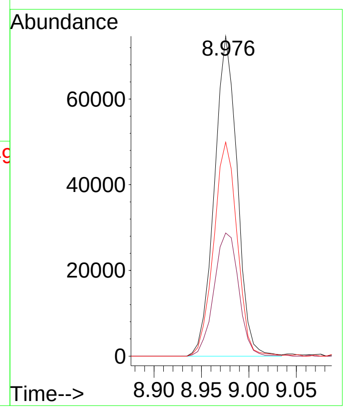
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

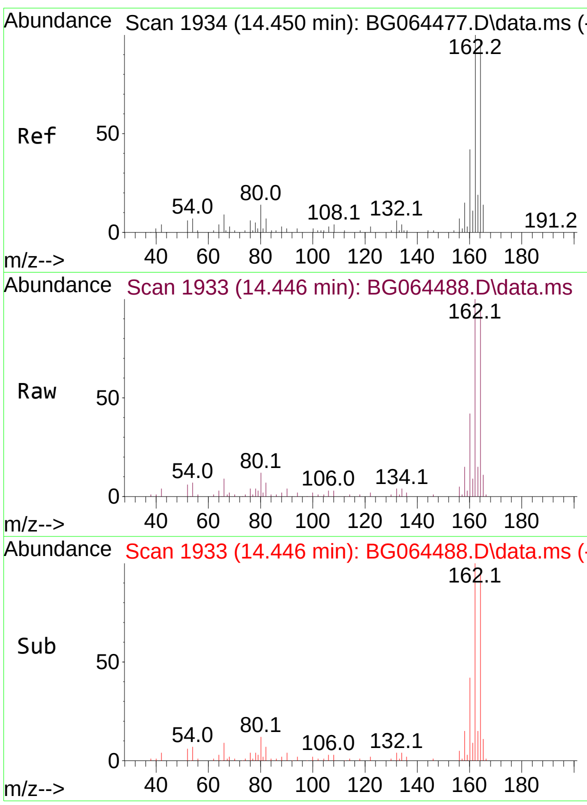



#23
Nitrobenzene-d5
Concen: 94.032 ng
RT: 8.976 min Scan# 1002
Delta R.T. 0.009 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion: 82 Resp: 124977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.5 | 33.1 | 49.7 |
| 54 | 66.9 | 55.4 | 83.2 |

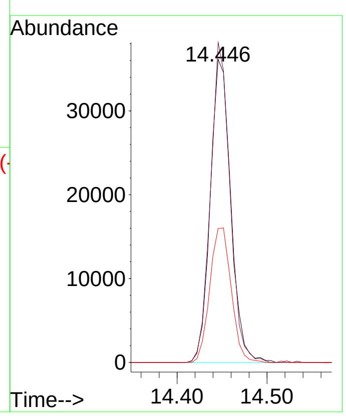


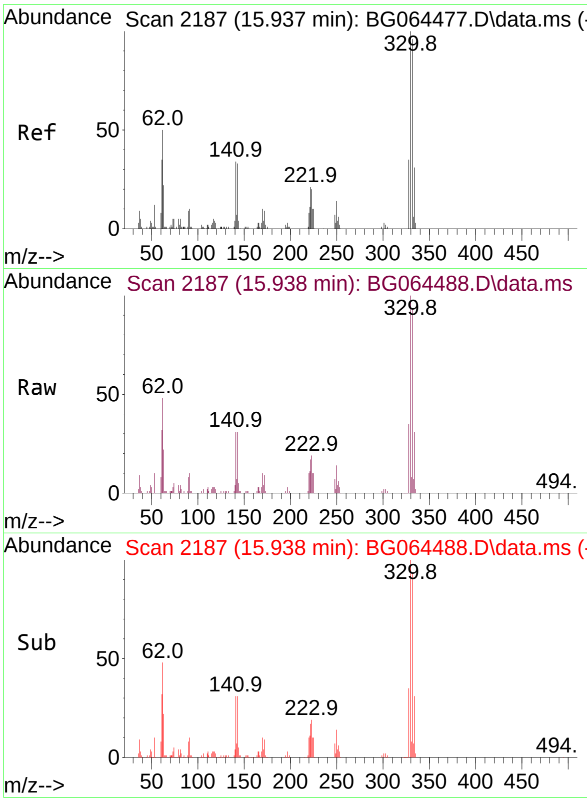




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.446 min Scan# 1933
Delta R.T. -0.002 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:164 Resp: 57081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.6 | 82.2 | 123.2 |
| 160 | 44.2 | 34.3 | 51.5 |



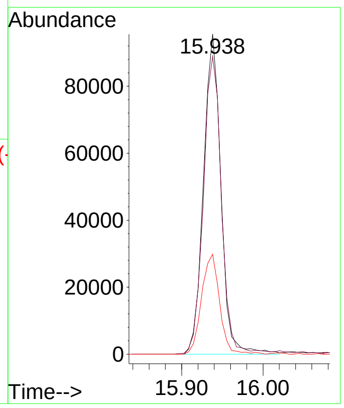


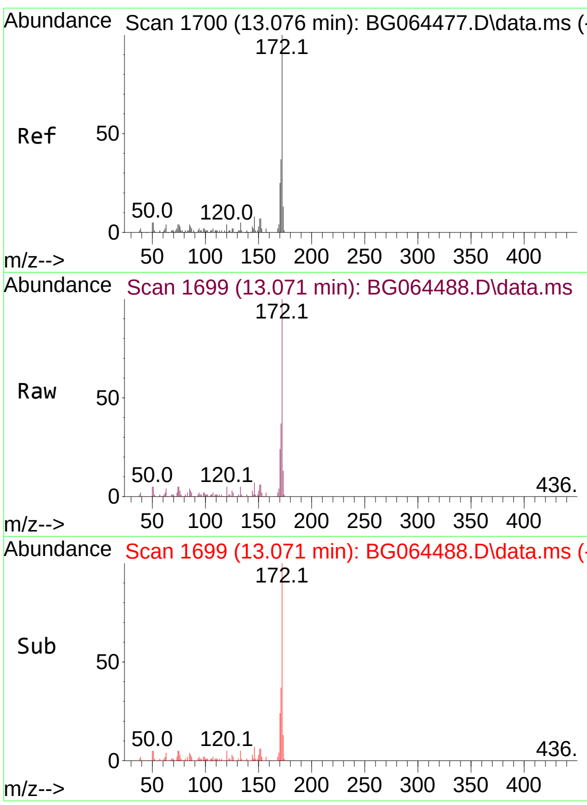

#42
2,4,6-Tribromophenol
Concen: 137.808 ng
RT: 15.938 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

Tgt Ion:330 Resp: 142586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 77.4 | 116.0 |
| 141 | 32.0 | 25.8 | 38.6 |

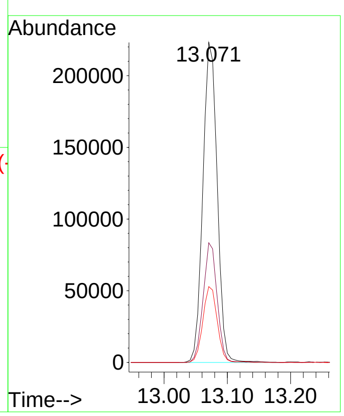


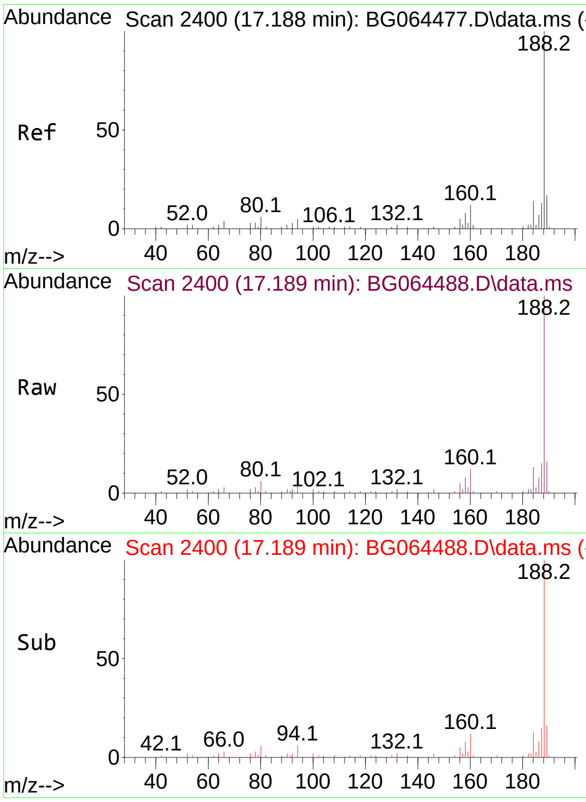

#45
2-Fluorobiphenyl
Concen: 90.727 ng
RT: 13.071 min Scan# 1699
Delta R.T. 0.003 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:172 Resp: 351343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.4 | 29.6 | 44.4 |
| 170 | 23.7 | 20.2 | 30.2 |



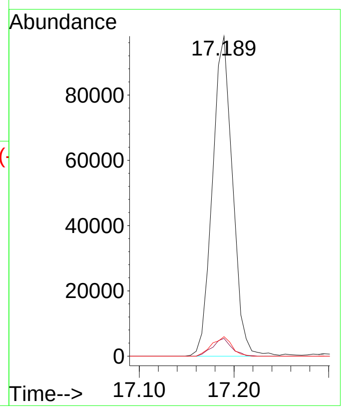
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

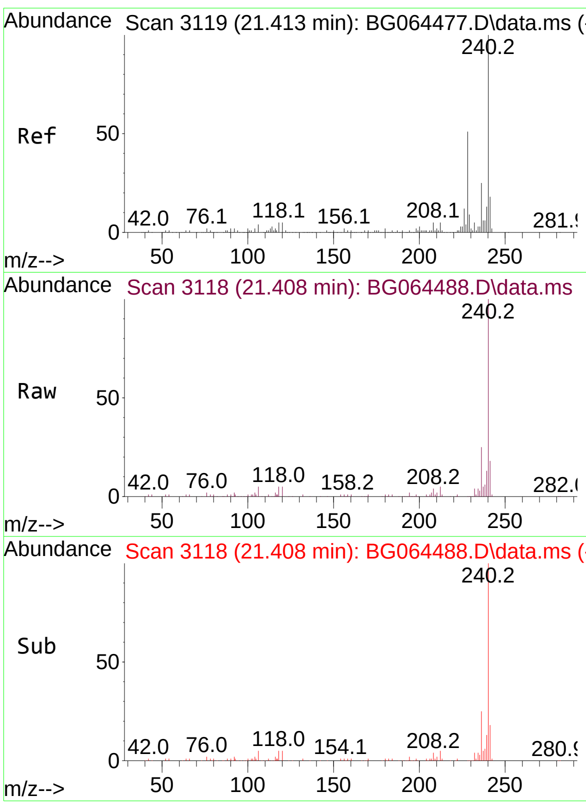



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.189 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:188 Resp: 145353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 5.5 | 3.7 | 5.5# |
| 80 | 6.1 | 4.5 | 6.7 |

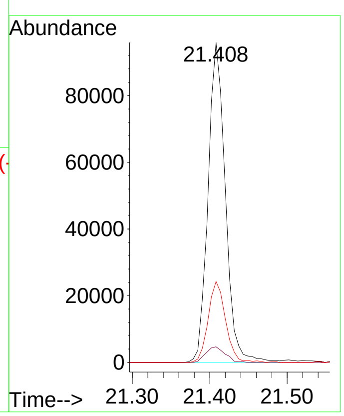


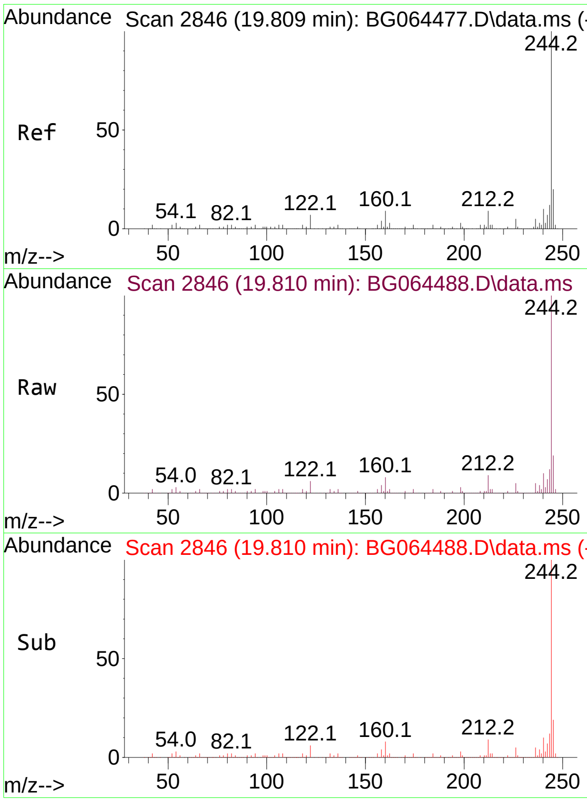

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.408 min Scan# 3118
Delta R.T. -0.002 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:240 Resp: 149348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 4.9 | 4.3 | 6.5 |
| 236 | 25.3 | 20.4 | 30.6 |



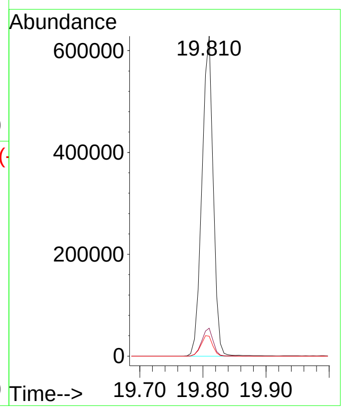
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

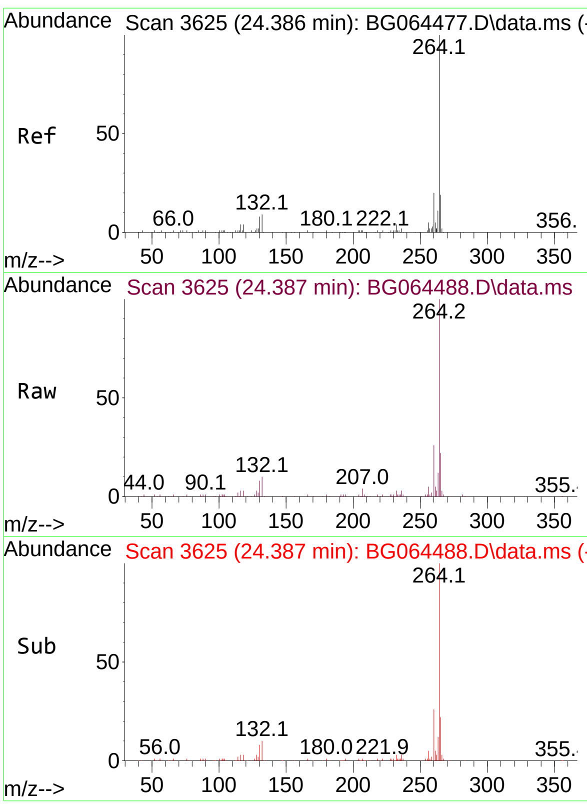



#79
Terphenyl-d14
Concen: 98.773 ng
RT: 19.810 min Scan# 28
Delta R.T. 0.003 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:244 Resp: 779476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.7 | 7.0 | 10.6 |
| 122 | 6.2 | 5.6 | 8.4 |

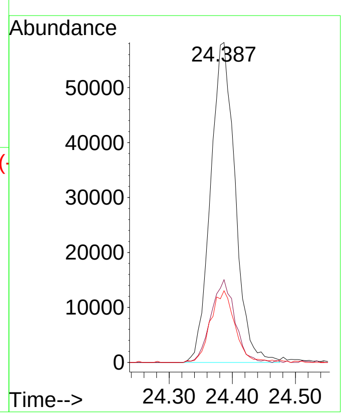



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.387 min Scan# 3625
Delta R.T. -0.002 min
Lab File: BG064488.D
Acq: 3 Oct 2025 15:35

Tgt Ion:264 Resp: 157878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.8 | 16.2 | 24.4# |
| 265 | 22.4 | 15.0 | 22.4 |



Sample Results: **BG064488.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064488.D
Acq On : 3 Oct 2025 15:35
Operator : RC/JU
Sample : PB169973BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064488.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.415 | 389 | 396 | 404 | rBV | 414112 | 622304 | 28.61% | 8.093% |
| 2 | 7.001 | 658 | 666 | 673 | rBV | 393647 | 667108 | 30.67% | 8.676% |
| 3 | 7.824 | 799 | 806 | 813 | rBB | 69950 | 113447 | 5.22% | 1.475% |
| 4 | 8.976 | 993 | 1002 | 1010 | rBV | 242448 | 422134 | 19.41% | 5.490% |
| 5 | 10.609 | 1273 | 1280 | 1295 | rVB | 82628 | 154573 | 7.11% | 2.010% |
| 6 | 13.071 | 1693 | 1699 | 1712 | rBV | 702849 | 1080017 | 49.65% | 14.046% |
| 7 | 14.446 | 1927 | 1933 | 1944 | rBV | 154134 | 244585 | 11.24% | 3.181% |
| 8 | 15.938 | 2180 | 2187 | 2201 | rBV | 712709 | 1087253 | 49.99% | 14.140% |
| 9 | 17.189 | 2391 | 2400 | 2407 | rBV | 242464 | 354840 | 16.31% | 4.615% |
| 10 | 19.810 | 2839 | 2846 | 2854 | rBV | 1723358 | 2175065 | 100.00% | 28.287% |
| 11 | 21.408 | 3112 | 3118 | 3127 | rBV | 243946 | 383387 | 17.63% | 4.986% |
| 12 | 24.387 | 3615 | 3625 | 3635 | rBV2 | 145265 | 384523 | 17.68% | 5.001% |

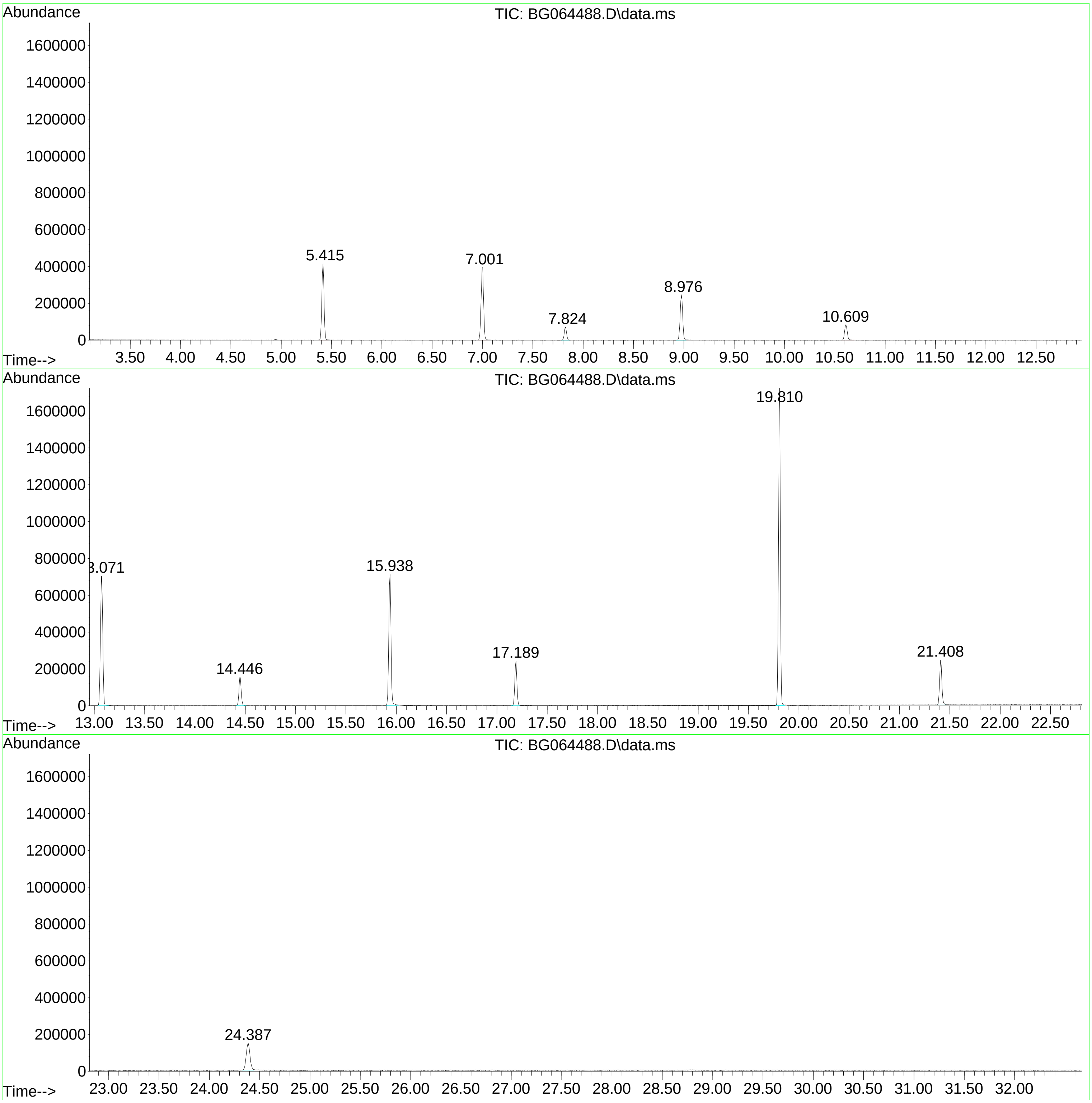
Sum of corrected areas: 7689236

LSC Report - Integrated Chromatogram

Sample Results: **BG064488.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064488.D
Acq On    :  3 Oct 2025  15:35
Operator  : RC/JU
Sample    : PB169973BL
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL



Library Search Compound Report

Sample Results: **BG064488.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064488.D
Acq On : 3 Oct 2025 15:35
Operator : RC/JU
Sample : PB169973BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
*********************************************************************

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064488.D
Acq On    :  3 Oct 2025  15:35
Operator  : RC/JU
Sample    : PB169973BL
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BL

```
                                                   |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-----------------------------------------------------------------------------
```

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | G Environmental | | Date Collected: | | |
| Project: | ANN | | Date Received: | | |
| Client Sample ID: | PB169973BS | | SDG No.: | Q3274 | |
| Lab Sample ID: | PB169973BS | | Matrix: | Water | |
| Analytical Method: | 8270E | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 | Units: mL | Final Vol: | 1000 | uL |
| Soil Aliquot Vol: | | uL | Test: | SVOCMS Group1 | |
| Extraction Type : | | Decanted : N | Level : | LOW | |
| Injection Volume : | | GPC Factor : 1.0 | GPC Cleanup : | N | PH : |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064489.D | 1 | 10/03/25 08:35 | 10/03/25 16:16 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 26.5 | | 3.90 | 10.0 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 49.4 | | 0.81 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 49.5 | | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 57.0 | | 0.74 | 5.00 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 51.0 | | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 49.2 | | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 50.7 | | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 48.4 | | 0.75 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 50.5 | | 0.68 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 50.7 | | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 18.8 | | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 49.1 | | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 52.0 | | 1.10 | 10.0 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 46.2 | | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 150 | E | 3.60 | 10.0 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 56.4 | | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 50.1 | | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 53.0 | | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 52.1 | | 0.61 | 5.00 | ug/L |
| 208-96-8 | Acenaphthylene | 57.9 | | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 53.0 | | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 30.0 | | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 49.8 | | 0.55 | 5.00 | ug/L |
| 132-64-9 | Dibenzofuran | 51.4 | | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 52.2 | | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 51.8 | | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 50.4 | | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 52.1 | | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 53.5 | | 1.50 | 5.00 | ug/L |

Raw Data: **BG064489.D**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | | |
|---|---|---|---|---|---|---|
| Client: | G Environmental | | | Date Collected: | | |
| Project: | ANN | | | Date Received: | | |
| Client Sample ID: | PB169973BS | | | SDG No.: | Q3274 | |
| Lab Sample ID: | PB169973BS | | | Matrix: | Water | |
| Analytical Method: | 8270E | | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 | uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group1 | |
| Extraction Type : | | Decanted : | N | Level : | LOW | |
| Injection Volume : | | GPC Factor : | 1.0 | GPC Cleanup : | N | PH : |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064489.D | 1 | 10/03/25 08:35 | 10/03/25 16:16 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 52.3 | | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 51.0 | | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 50.8 | | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 55.0 | | 1.00 | 5.00 | ug/L |
| 85-01-8 | Phenanthrene | 51.6 | | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 53.0 | | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 53.2 | | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 52.6 | | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 52.1 | | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 51.7 | | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 52.8 | | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 30.6 | | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 51.5 | | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 51.3 | | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 52.7 | | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 52.0 | | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 54.2 | | 0.49 | 5.00 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 51.8 | | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 54.9 | | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 53.9 | | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 55.2 | | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 54.7 | | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 54.2 | | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 37.9 | | 1.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 94.3 | | 30 (67) - 130 (132) | 94% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 91.8 | | 30 (52) - 130 (132) | 92% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 97.3 | | 30 (42) - 130 (152) | 97% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 16300 | 7.823 | | | |

Raw Data: **BG064489.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | ANN | Date Received: | |
| Client Sample ID: | PB169973BS | SDG No.: | Q3274 |
| Lab Sample ID: | PB169973BS | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064489.D | 1 | 10/03/25 08:35 | 10/03/25 16:16 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 1146-65-2 | Naphthalene-d8 | 69200 | 10.608 | | | |
| 15067-26-2 | Acenaphthene-d10 | 53800 | 14.45 | | | |
| 1517-22-2 | Phenanthrene-d10 | 136000 | 17.188 | | | |
| 1719-03-5 | Chrysene-d12 | 136000 | 21.413 | | | |
| 1520-96-3 | Perylene-d12 | 146000 | 24.391 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BG064489.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064489.D
Acq On : 3 Oct 2025 16:16
Operator : RC/JU
Sample : PB169973BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Quant Time: Oct 03 17:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.823 | 152 | 16264 | 20.000 | ng | # | 0.00 |
| 21) Naphthalene-d8 | 10.608 | 136 | 69209 | 20.000 | ng | # | 0.00 |
| 39) Acenaphthene-d10 | 14.450 | 164 | 53762 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.188 | 188 | 136086 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.413 | 240 | 136322 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.391 | 264 | 146226 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.414 | 112 | 138141 | 157.191 | ng | | 0.00 |
| 7) Phenol-d6 | 7.000 | 99 | 180394 | 152.750 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 8.980 | 82 | 121407 | 94.324 | ng | | 0.01 |
| 42) 2,4,6-Tribromophenol | 15.943 | 330 | 145062 | 148.856 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.075 | 172 | 334812 | 91.796 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.809 | 244 | 701104 | 97.331 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.316 | 88 | 13173 | 37.896 | ng | | 93 |
| 3) Pyridine | 3.710 | 79 | 35965 | 38.498 | ng | | 96 |
| 4) n-Nitrosodimethylamine | 3.628 | 42 | 35975 | 53.120 | ng | # | 94 |
| 6) Aniline | 7.153 | 93 | 54677 | 36.704 | ng | | 95 |
| 8) 2-Chlorophenol | 7.394 | 128 | 55732 | 51.645 | ng | | 95 |
| 9) Benzaldehyde | 6.959 | 77 | 27733 | 26.454 | ng | | 97 |
| 10) Phenol | 7.024 | 94 | 66374 | 53.277 | ng | | 94 |
| 11) bis(2-Chloroethyl)ether | 7.247 | 93 | 41708 | 49.435 | ng | | 93 |
| 12) 1,3-Dichlorobenzene | 7.711 | 146 | 59993 | 50.820 | ng | | 93 |
| 13) 1,4-Dichlorobenzene | 7.858 | 146 | 60392 | 50.973 | ng | | 94 |
| 14) 1,2-Dichlorobenzene | 8.175 | 146 | 60785 | 52.056 | ng | | 99 |
| 15) Benzyl Alcohol | 8.064 | 79 | 58102 | 53.422 | ng | | 93 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.346 | 45 | 67381 | 49.546 | ng | | 97 |
| 17) 2-Methylphenol | 8.269 | 107 | 47294 | 52.425 | ng | | 98 |
| 18) Hexachloroethane | 8.904 | 117 | 23005 | 49.193 | ng | | 93 |
| 19) n-Nitroso-di-n-propyla... | 8.628 | 70 | 40266 | 50.981 | ng | # | 93 |
| 20) 3+4-Methylphenols | 8.592 | 107 | 67040 | 53.253 | ng | | 93 |
| 22) Acetophenone | 8.645 | 105 | 95591 | 57.044 | ng | # | 98 |
| 24) Nitrobenzene | 9.021 | 77 | 65082 | 50.705 | ng | | 99 |
| 25) Isophorone | 9.544 | 82 | 112788 | 48.371 | ng | | 99 |
| 26) 2-Nitrophenol | 9.726 | 139 | 31396 | 49.147 | ng | | 93 |
| 27) 2,4-Dimethylphenol | 9.791 | 122 | 56577 | 57.985 | ng | | 89 |
| 28) bis(2-Chloroethoxy)met... | 10.026 | 93 | 59992 | 50.474 | ng | | 95 |
| 29) 2,4-Dichlorophenol | 10.261 | 162 | 63008 | 55.844 | ng | | 91 |
| 30) 1,2,4-Trichlorobenzene | 10.478 | 180 | 65847 | 53.523 | ng | # | 94 |
| 31) Naphthalene | 10.661 | 128 | 180768 | 50.722 | ng | | 98 |
| 32) Benzoic acid | 9.967 | 122 | 46416m | 61.961 | ng | | |
| 33) 4-Chloroaniline | 10.772 | 127 | 25770 | 18.843 | ng | # | 91 |
| 34) Hexachlorobutadiene | 10.954 | 225 | 51772 | 49.138 | ng | | 97 |
| 35) Caprolactam | 11.542 | 113 | 20070m | 51.960 | ng | | |
| 36) 4-Chloro-3-methylphenol | 11.900 | 107 | 73890 | 53.851 | ng | | 100 |
| 37) 2-Methylnaphthalene | 12.270 | 142 | 126325 | 46.176 | ng | | 98 |
| 38) 1-Methylnaphthalene | 12.494 | 142 | 131440 | 48.184 | ng | | 95 |
| 40) 1,2,4,5-Tetrachloroben... | 12.641 | 216 | 94170 | 54.249 | ng | # | 96 |
| 41) Hexachlorocyclopentadiene | 12.623 | 237 | 132704 | 146.146 | ng | | 94 |
| 43) 2,4,6-Trichlorophenol | 12.881 | 196 | 59397 | 53.526 | ng | | 96 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064489.D
Acq On : 3 Oct 2025 16:16
Operator : RC/JU
Sample : PB169973BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Quant Time: Oct 03 17:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.952 | 196 | 67385 | 54.393 ng | | 96 |
| 46) 1,1'-Biphenyl | 13.287 | 154 | 218091 | 56.402 ng | | 98 |
| 47) 2-Chloronaphthalene | 13.322 | 162 | 144673 | 50.112 ng | | 98 |
| 48) 2-Nitroaniline | 13.528 | 65 | 52229 | 53.007 ng | | 91 |
| 49) Acenaphthylene | 14.174 | 152 | 248338 | 57.947 ng | | 99 |
| 50) Dimethylphthalate | 13.910 | 163 | 219320 | 52.087 ng | | 98 |
| 51) 2,6-Dinitrotoluene | 14.027 | 165 | 46526 | 53.043 ng | | 93 |
| 52) Acenaphthene | 14.515 | 154 | 148370 | 49.831 ng | | 98 |
| 53) 3-Nitroaniline | 14.356 | 138 | 24285 | 30.021 ng | # | 90 |
| 54) 2,4-Dinitrophenol | 14.568 | 184 | 60734 | 95.491 ng | # | 84 |
| 55) Dibenzofuran | 14.850 | 168 | 252708 | 51.403 ng | | 99 |
| 56) 4-Nitrophenol | 14.679 | 139 | 70603 | 110.857 ng | | 86 |
| 57) 2,4-Dinitrotoluene | 14.814 | 165 | 70046 | 52.240 ng | # | 91 |
| 58) Fluorene | 15.496 | 166 | 212852 | 52.080 ng | | 98 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.079 | 232 | 69146m | 54.690 ng | | |
| 60) Diethylphthalate | 15.279 | 149 | 233804 | 51.761 ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 15.496 | 204 | 112399 | 50.374 ng | | 98 |
| 62) 4-Nitroaniline | 15.525 | 138 | 45131 | 53.529 ng | | 92 |
| 63) Azobenzene | 15.784 | 77 | 183158 | 52.357 ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 15.578 | 198 | 48834 | 51.538 ng | | 96 |
| 66) n-Nitrosodiphenylamine | 15.708 | 169 | 190210 | 52.341 ng | | 96 |
| 67) 4-Bromophenyl-phenylether | 16.383 | 248 | 81751 | 51.049 ng | | 92 |
| 68) Hexachlorobenzene | 16.501 | 284 | 93070 | 50.789 ng | | 98 |
| 69) Atrazine | 16.659 | 200 | 88975 | 55.031 ng | | 99 |
| 70) Pentachlorophenol | 16.847 | 266 | 114041 | 106.438 ng | | 98 |
| 71) Phenanthrene | 17.235 | 178 | 367467 | 51.635 ng | | 99 |
| 72) Anthracene | 17.323 | 178 | 378287 | 52.985 ng | | 99 |
| 73) Carbazole | 17.594 | 167 | 328133 | 53.172 ng | | 98 |
| 74) Di-n-butylphthalate | 18.158 | 149 | 396056 | 52.573 ng | | 99 |
| 75) Fluoranthene | 19.245 | 202 | 442925 | 52.097 ng | | 98 |
| 77) Benzidine | 19.427 | 184 | 112790 | 33.250 ng | | 97 |
| 78) Pyrene | 19.603 | 202 | 457350 | 51.696 ng | | 98 |
| 80) Butylbenzylphthalate | 20.502 | 149 | 165515 | 52.777 ng | | 97 |
| 81) Benzo(a)anthracene | 21.395 | 228 | 448603 | 51.538 ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 21.319 | 252 | 90148 | 30.600 ng | | 98 |
| 83) Chrysene | 21.460 | 228 | 423453 | 51.298 ng | | 97 |
| 84) Bis(2-ethylhexyl)phtha... | 21.319 | 149 | 233098 | 52.679 ng | | 99 |
| 85) Di-n-octyl phthalate | 22.441 | 149 | 386957 | 52.033 ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.746 | 276 | 548210 | 53.861 ng | | 98 |
| 88) Benzo(b)fluoranthene | 23.451 | 252 | 450951 | 54.209 ng | | 98 |
| 89) Benzo(k)fluoranthene | 23.516 | 252 | 433743 | 51.769 ng | | 97 |
| 90) Benzo(a)pyrene | 24.256 | 252 | 420603 | 54.860 ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 27.799 | 278 | 449110 | 55.175 ng | | 97 |
| 92) Benzo(g,h,i)perylene | 28.792 | 276 | 433026 | 54.744 ng | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

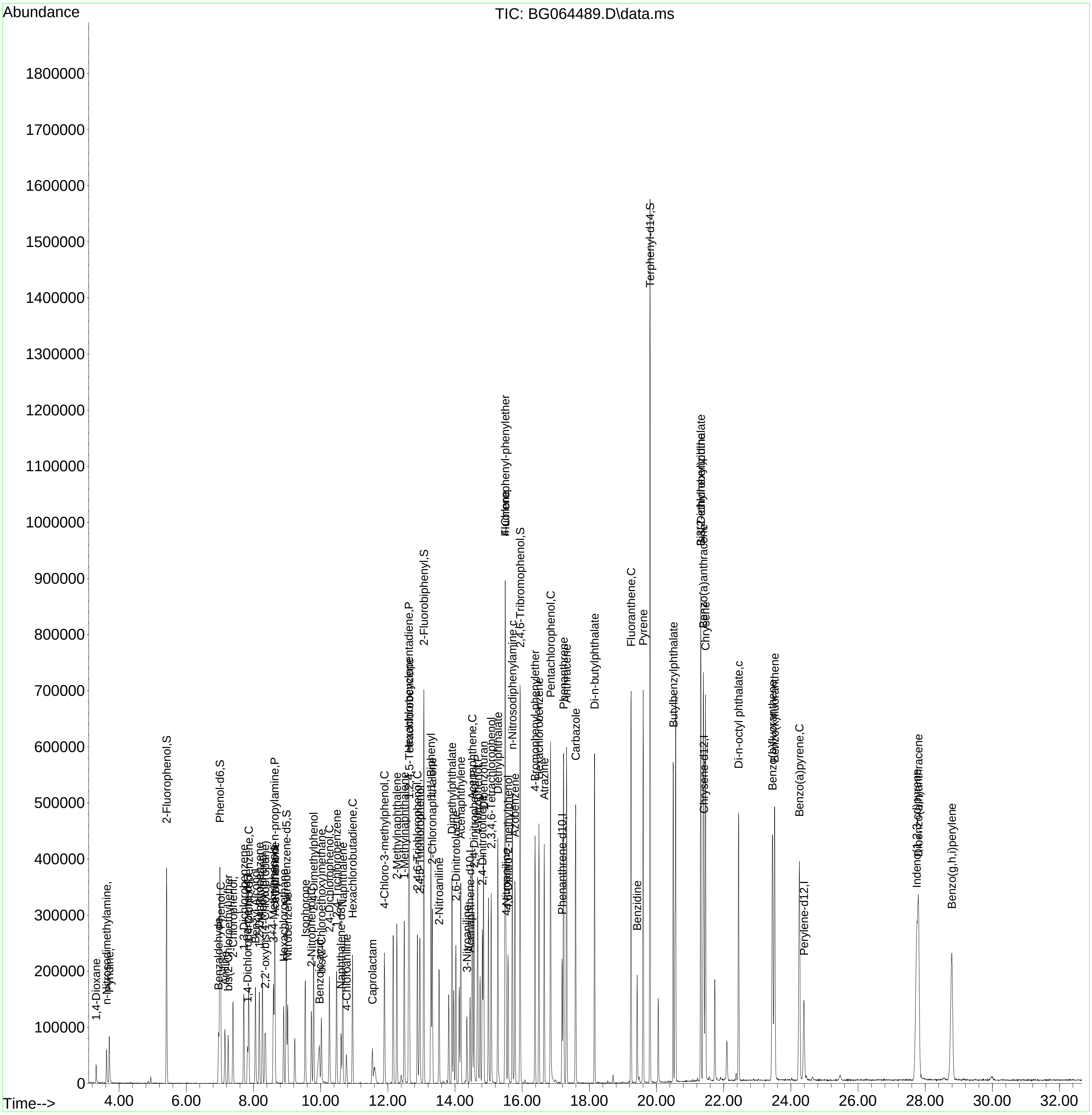
**Sample Results: BG064489.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064489.D
Acq On    :  3 Oct 2025  16:16
Operator  : RC/JU
Sample    : PB169973BS
Misc      :
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Oct 03 17:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration
```

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

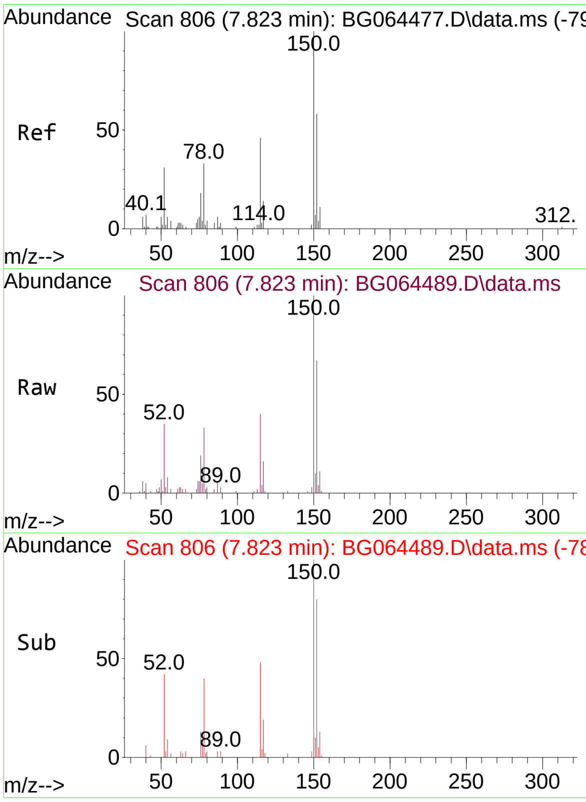
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025



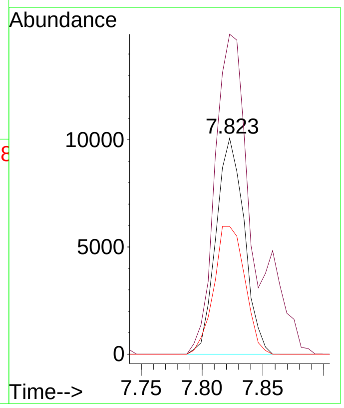
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

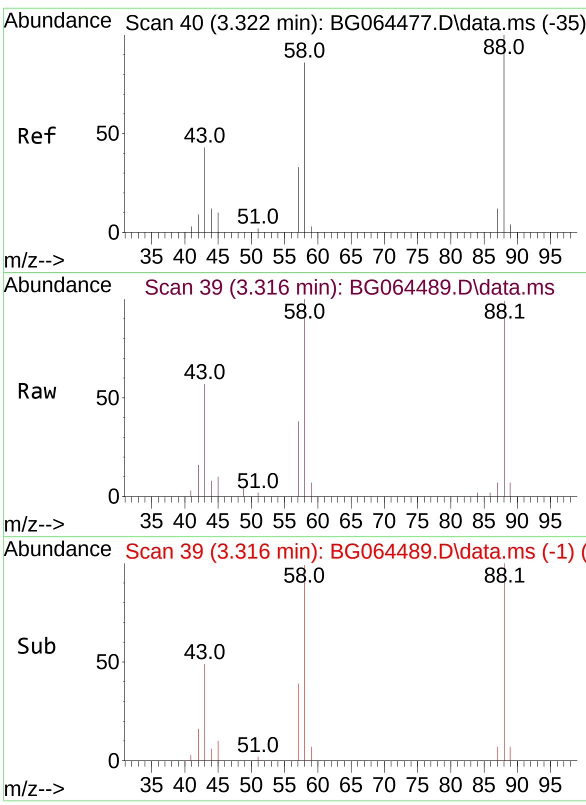
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

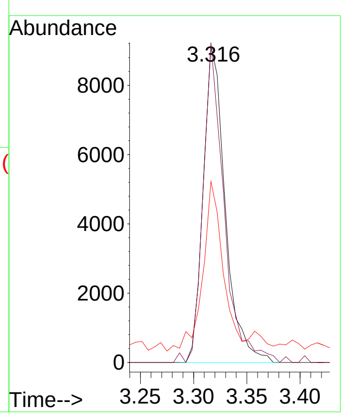



```
#1
1,4-Dichlorobenzene-d4
Concen:   20.000 ng
RT:    7.823 min  Scan# 80
Delta R.T.   0.003 min
Lab File:    BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:152 Resp:   16264
Ion  Ratio  Lower  Upper
152  100
150  148.3  138.6  207.8
115   59.2   63.4   95.2#
```

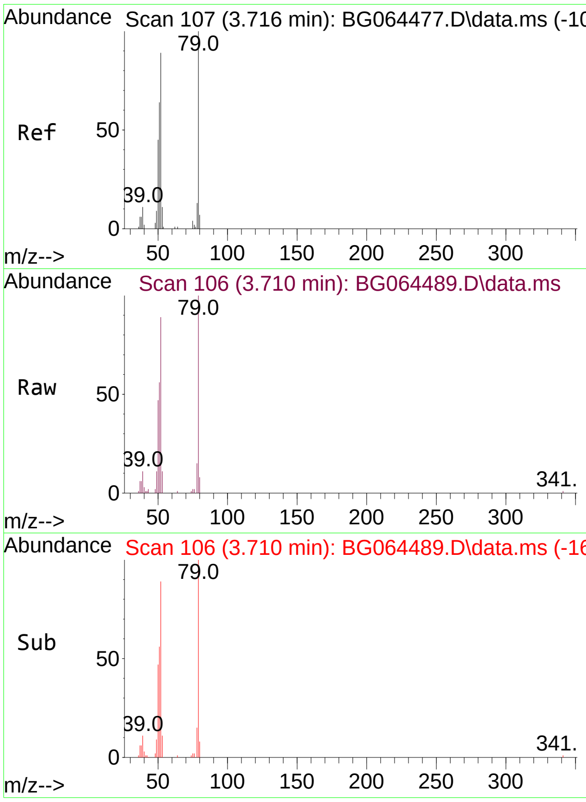



```
#2
1,4-Dioxane
Concen:   37.896 ng
RT:    3.316 min  Scan# 39
Delta R.T.  -0.004 min
Lab File:    BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion: 88 Resp:   13173
Ion  Ratio  Lower  Upper
 88  100
 58   96.3   69.8  104.6
 43   48.7   37.4   56.0
```



Sample Results: **BG064489.D**



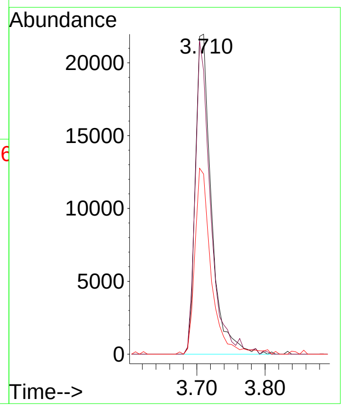

#3
Pyridine
Concen: 38.498 ng
RT: 3.710 min Scan# 1(
Delta R.T. -0.004 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

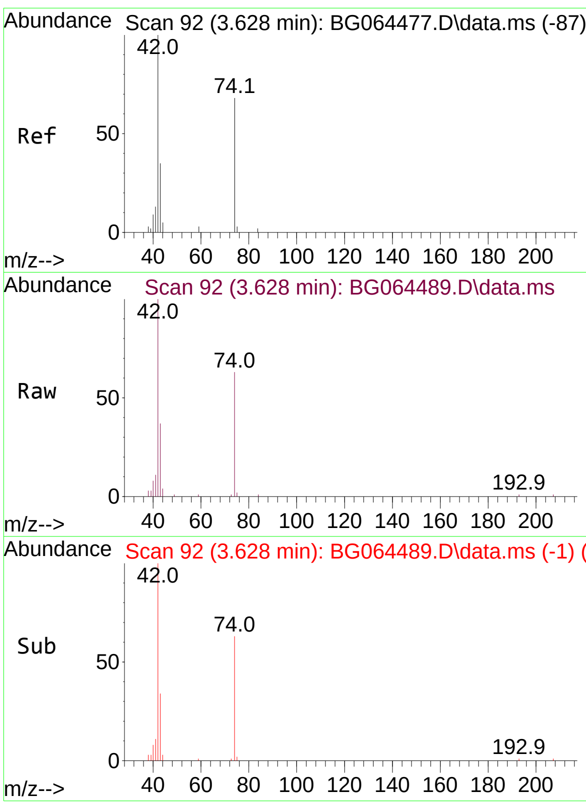
Tgt Ion: 79 Resp: 3596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 88.6 | 71.0 | 106.4 |
| 51 | 56.3 | 51.0 | 76.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

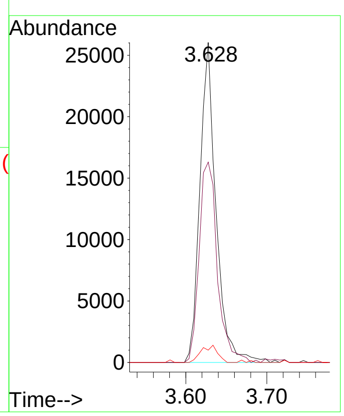


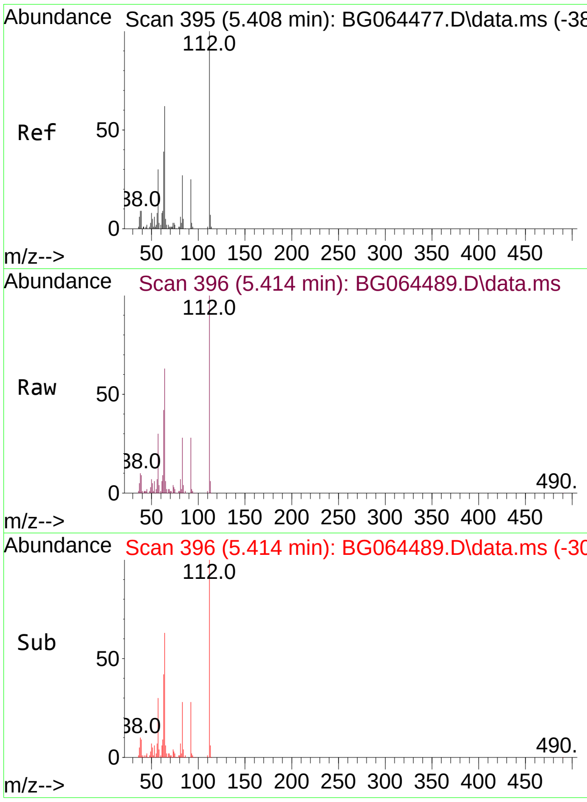




#4
n-Nitrosodimethylamine
Concen: 53.120 ng
RT: 3.628 min Scan# 92
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion: 42 Resp: 35975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 62.6 | 54.2 | 81.4 |
| 44 | 3.8 | 4.2 | 6.2# |

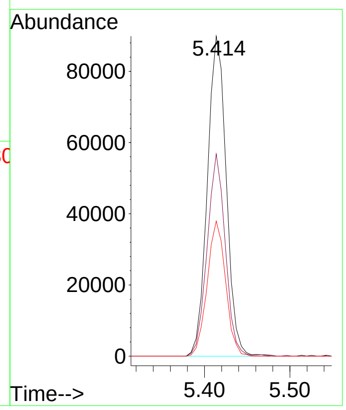





#5
2-Fluorophenol
Concen: 157.191 ng
RT: 5.414 min Scan# 39
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:112 Resp: 138141

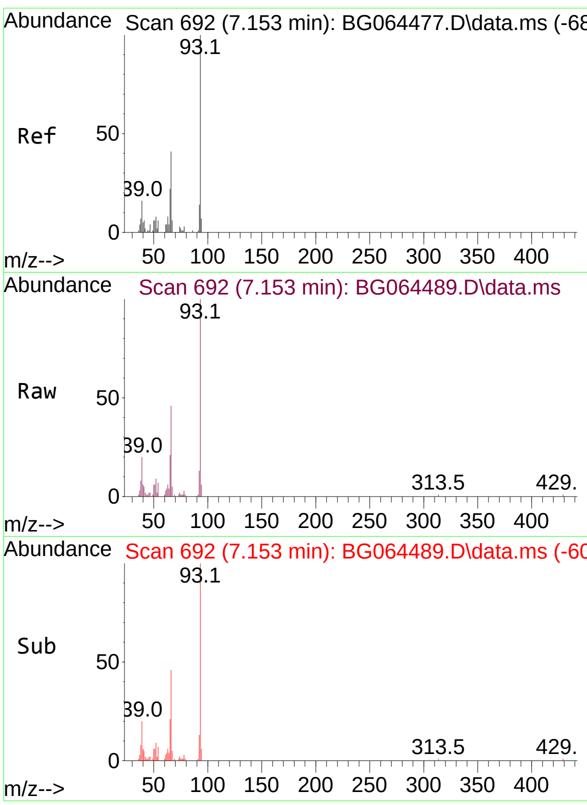
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.2 | 49.8 | 74.8 |
| 63 | 42.2 | 31.3 | 46.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

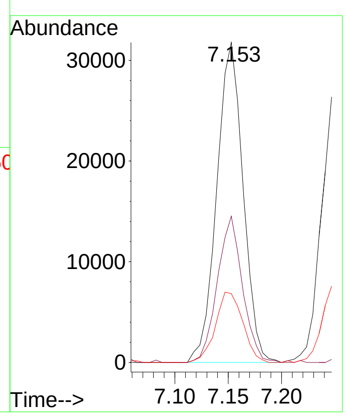
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

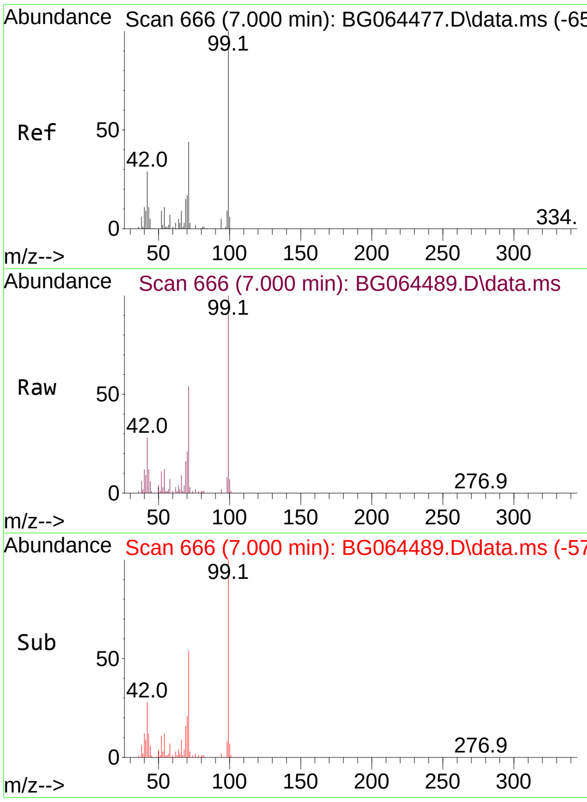



#6
Aniline
Concen: 36.704 ng
RT: 7.153 min Scan# 692
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion: 93 Resp: 54677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 45.7 | 33.0 | 49.4 |
| 65 | 21.5 | 17.5 | 26.3 |





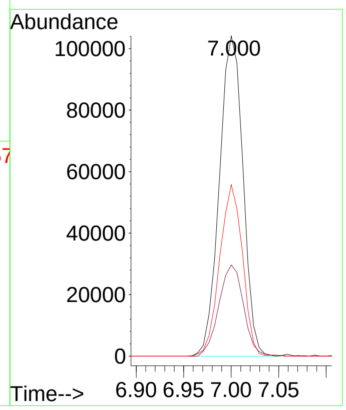

#7
Phenol-d6
Concen: 152.750 ng
RT: 7.000 min Scan# 66
Delta R.T. 0.014 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

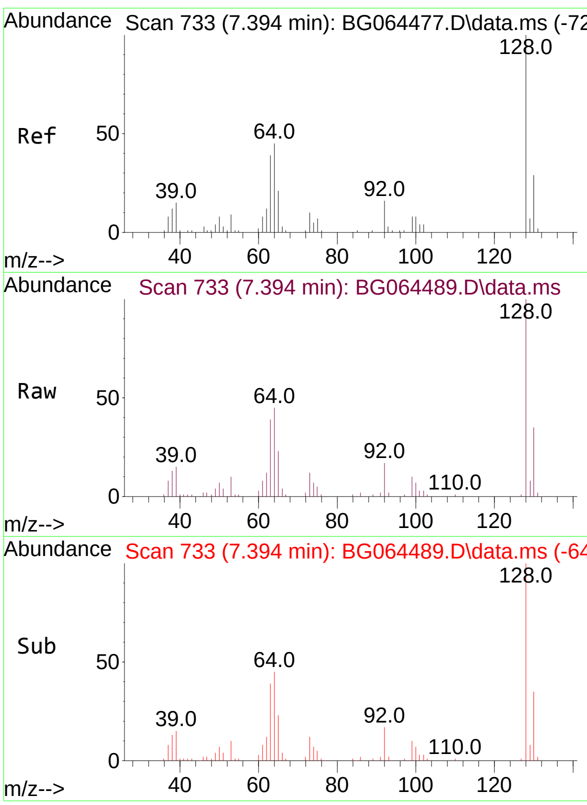
Tgt Ion: 99 Resp: 18039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 28.5 | 22.9 | 34.3 |
| 71 | 53.5 | 35.4 | 53.2# |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

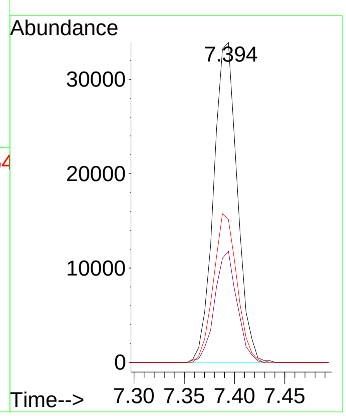


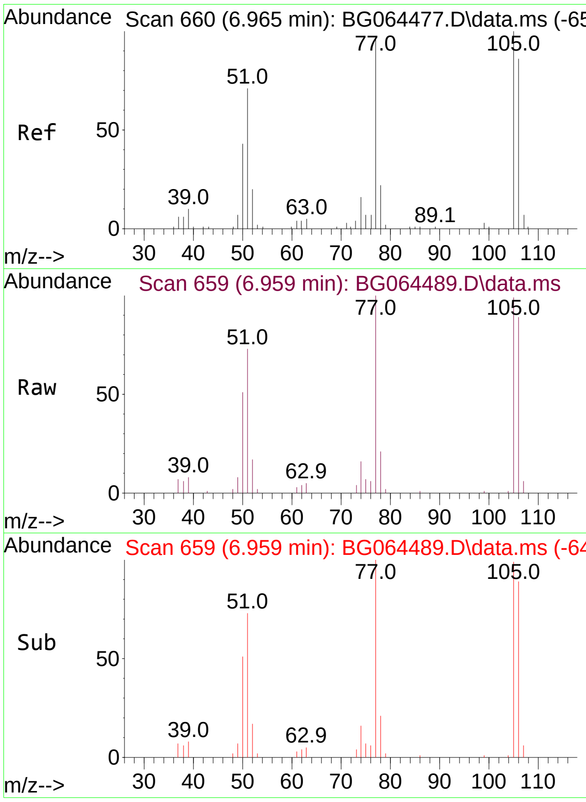

#8
2-Chlorophenol
Concen: 51.645 ng
RT: 7.394 min Scan# 733
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:128 Resp: 55732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 34.8 | 9.2 | 49.2 |
| 64 | 44.7 | 25.5 | 65.5 |



Sample Results: **BG064489.D**



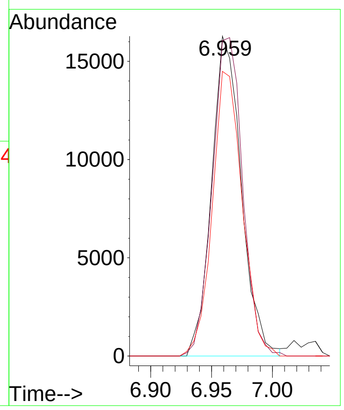

#9
Benzaldehyde
Concen:   26.454 ng
RT:   6.959 min   Scan# 65
Delta R.T.   -0.004 min
Lab File:   BG064489.D
Acq:   3 Oct 2025   16:16

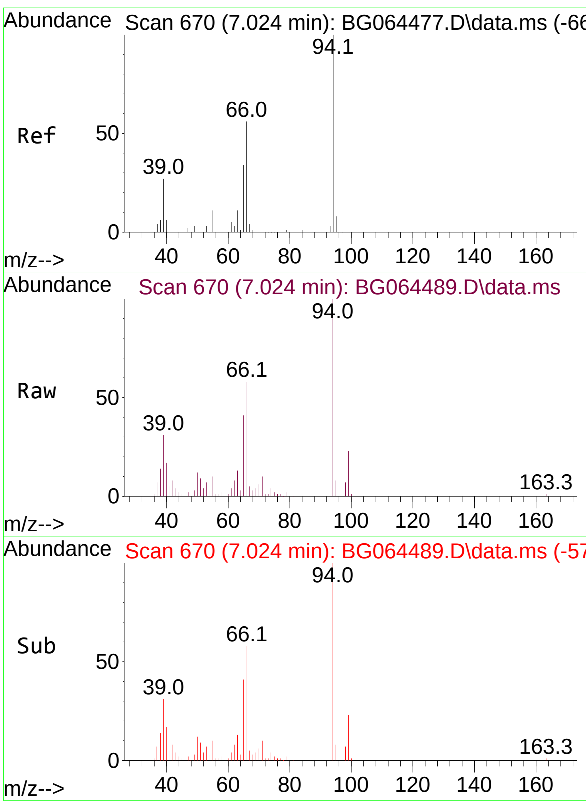
Tgt Ion: 77 Resp:   2773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 98.6 | 83.7 | 123.7 |
| 106 | 89.0 | 69.4 | 109.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli   10/06/2025
Supervised By :Jagrut Upadhyay   10/06/2025

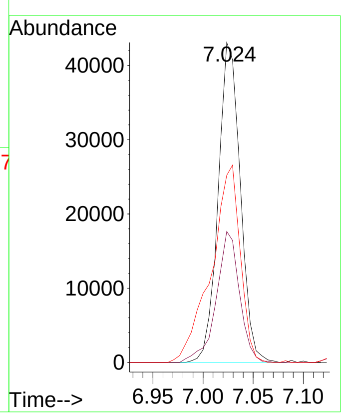


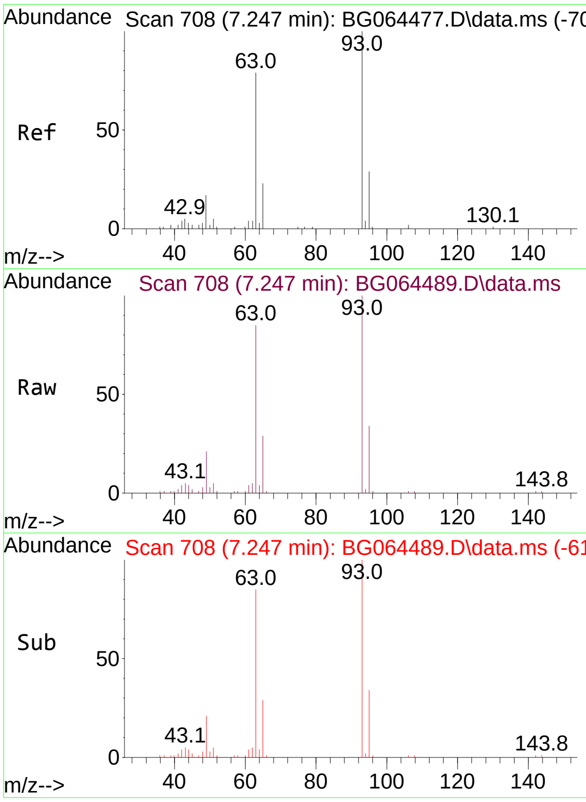




#10
Phenol
Concen:   53.277 ng
RT:   7.024 min   Scan# 670
Delta R.T.   0.008 min
Lab File:   BG064489.D
Acq:   3 Oct 2025   16:16

Tgt Ion: 94 Resp:   66374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 40.9 | 14.8 | 54.8 |
| 66 | 58.5 | 41.4 | 81.4 |






#11
bis(2-Chloroethyl)ether
Concen:   49.435 ng
RT:   7.247 min   Scan# 70
Delta R.T.   0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025   16:16

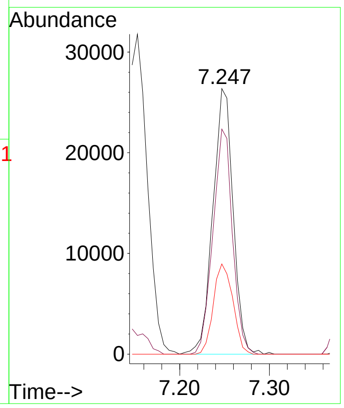
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

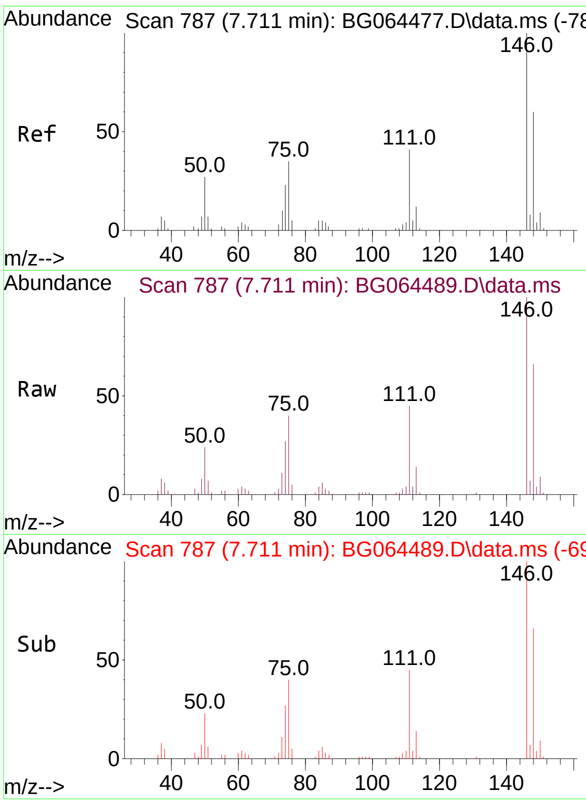
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli   10/06/2025
Supervised By :Jagrut Upadhyay   10/06/2025

Tgt Ion: 93 Resp:   41708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 84.7 | 59.5 | 99.5 |
| 95 | 34.0 | 8.8 | 48.8 |

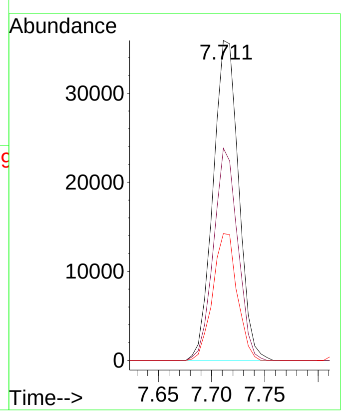


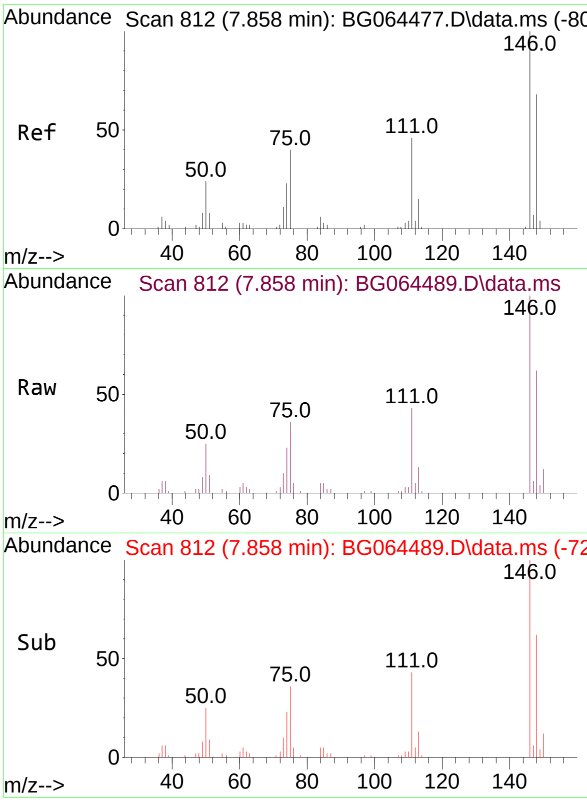




#12
1,3-Dichlorobenzene
Concen:   50.820 ng
RT:   7.711 min   Scan# 787
Delta R.T.   0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025   16:16

Tgt Ion:146 Resp:   59993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 66.3 | 48.4 | 72.6 |
| 75 | 39.6 | 28.3 | 42.5 |






#13
1,4-Dichlorobenzene
Concen: 50.973 ng
RT: 7.858 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

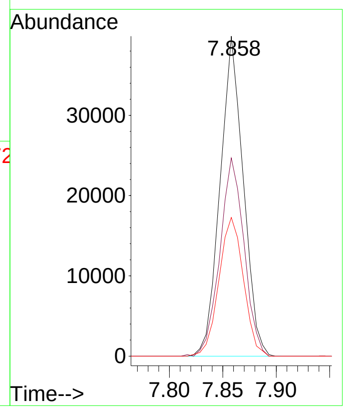
Tgt Ion:146 Resp: 6039

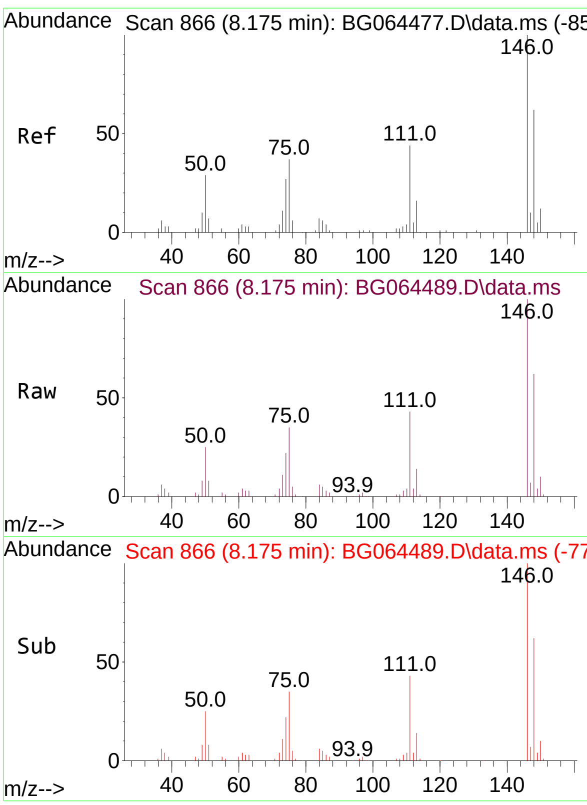
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 61.9 | 54.4 | 81.6 |
| 111 | 43.3 | 36.5 | 54.7 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

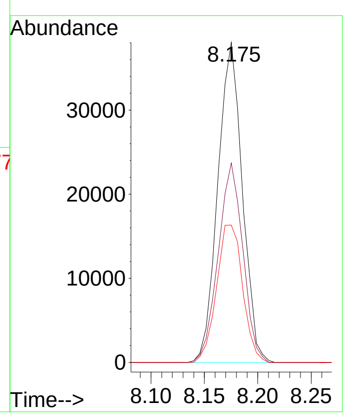


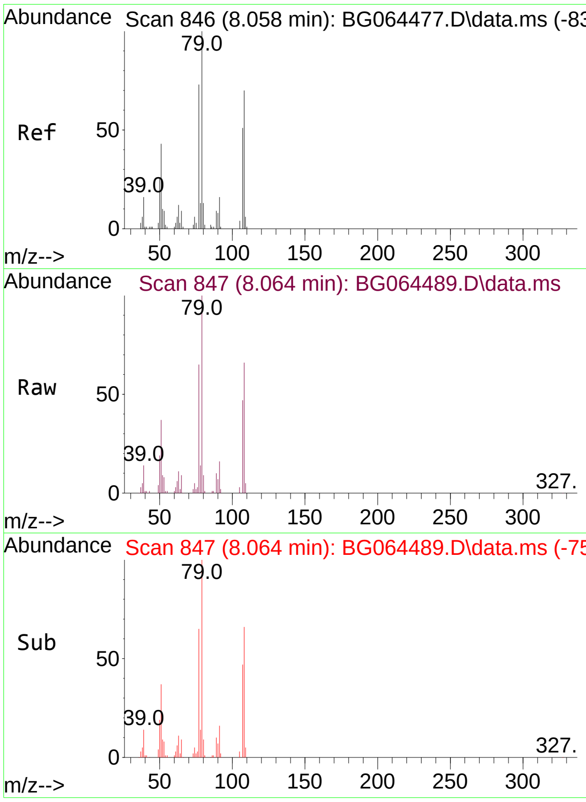




#14
1,2-Dichlorobenzene
Concen: 52.056 ng
RT: 8.175 min Scan# 866
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:146 Resp: 60785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.3 | 50.0 | 75.0 |
| 111 | 42.9 | 35.0 | 52.4 |





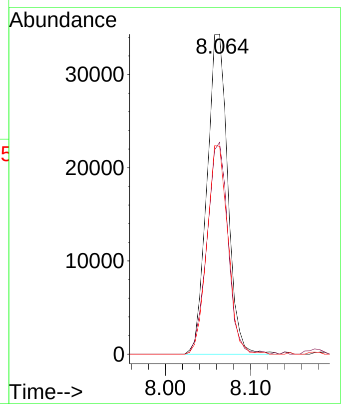

#15
Benzyl Alcohol
Concen: 53.422 ng
RT: 8.064 min Scan# 84
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

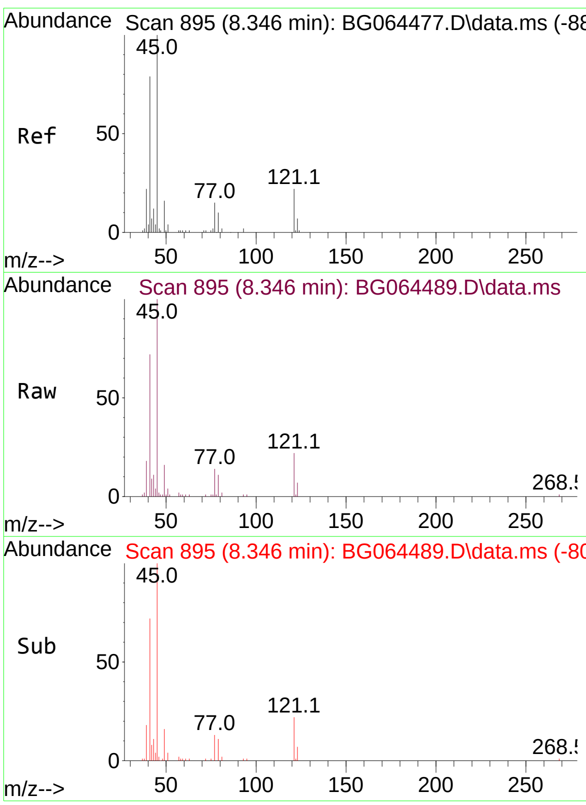
Tgt Ion: 79 Resp: 5810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 66.2 | 56.4 | 84.6 |
| 77 | 65.0 | 58.3 | 87.5 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

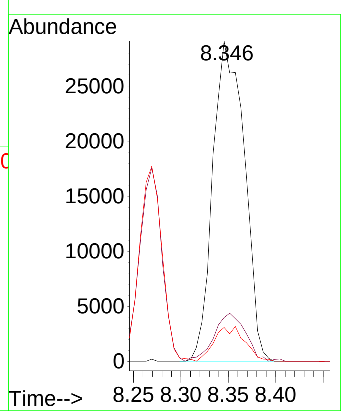



#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.546 ng
RT: 8.346 min Scan# 895
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion: 45 Resp: 67381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 13.6 | 0.0 | 35.6 |
| 79 | 10.5 | 0.0 | 30.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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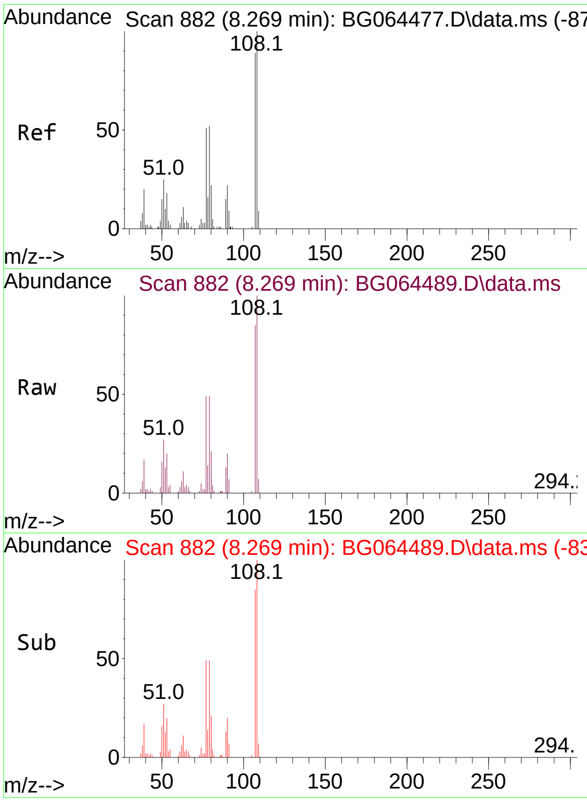
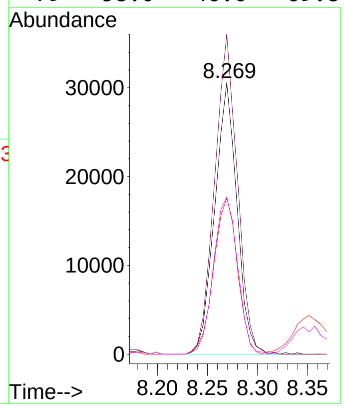
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

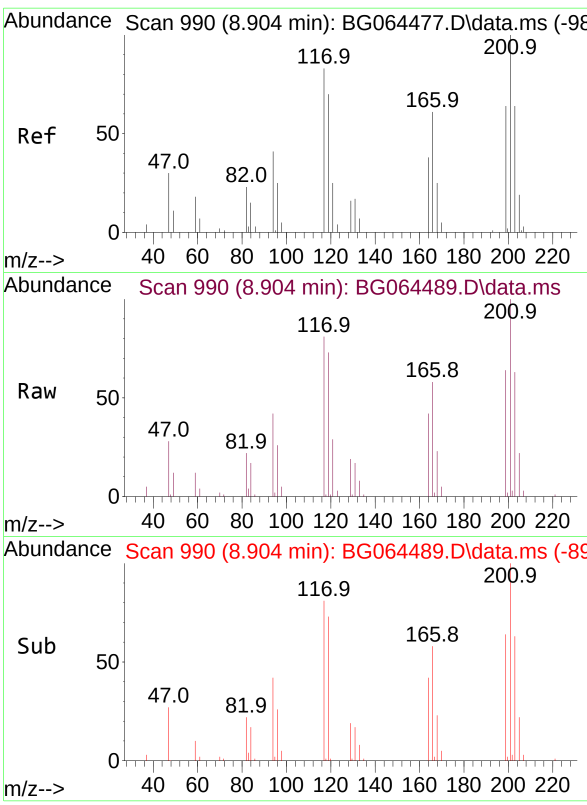



#17
2-Methylphenol
Concen: 52.425 ng
RT: 8.269 min Scan# 88
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:107 Resp: 47294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 118.0 | 90.3 | 135.5 |
| 77 | 57.5 | 46.0 | 69.0 |
| 79 | 58.0 | 46.6 | 69.8 |

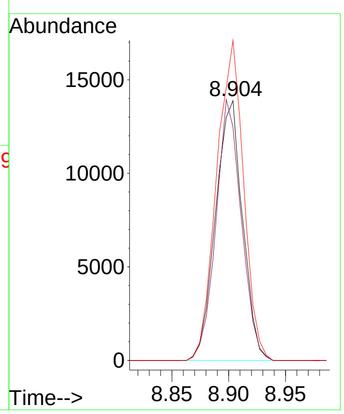



#18
Hexachloroethane
Concen: 49.193 ng
RT: 8.904 min Scan# 990
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:117 Resp: 23005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.3 | 67.4 | 101.0 |
| 201 | 127.2 | 95.9 | 143.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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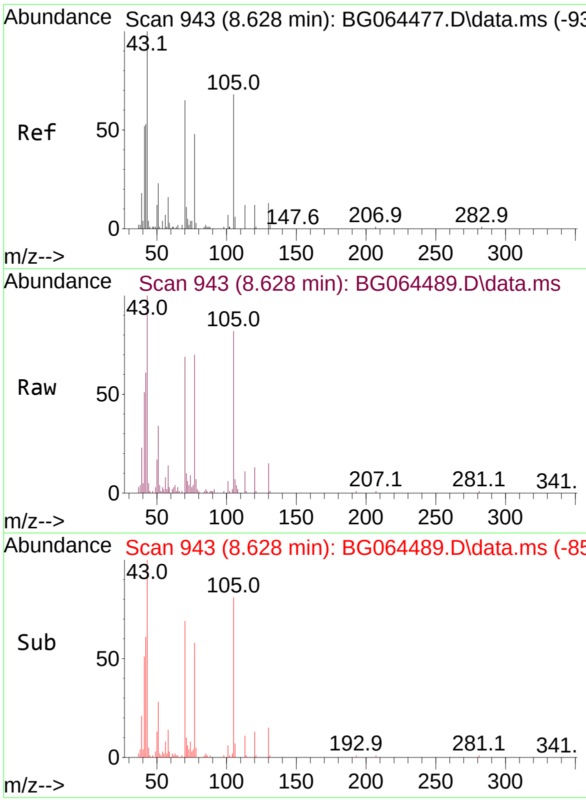
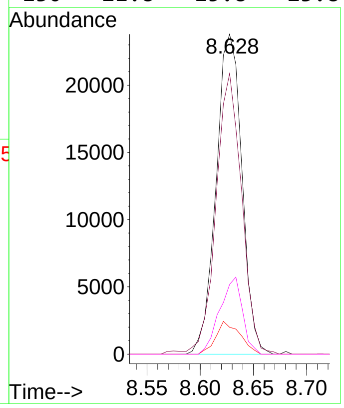
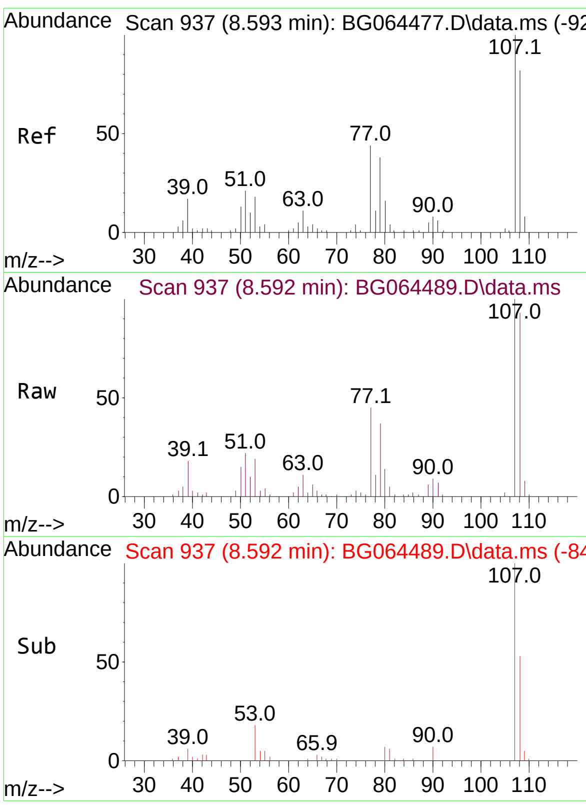
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

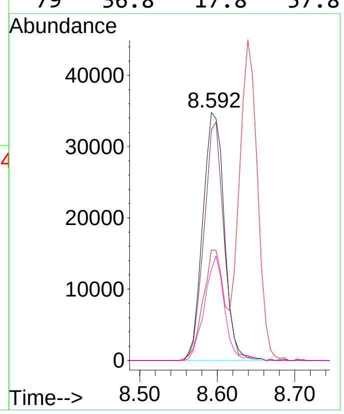



```
#19
n-Nitroso-di-n-propylamine
Concen:    50.981 ng
RT:    8.628 min   Scan# 94
Delta R.T.   0.014 min
Lab File:    BG064489.D
Acq:  3 Oct 2025   16:16

Tgt Ion: 70 Resp:    4026
Ion   Ratio   Lower   Upper
 70   100
 42    87.7    64.9    97.3
101     8.4     8.7    13.1#
130    21.8    15.8    23.8
```




```
#20
3+4-Methylphenols
Concen:    53.253 ng
RT:    8.592 min   Scan# 937
Delta R.T.   0.002 min
Lab File:    BG064489.D
Acq:  3 Oct 2025   16:16

Tgt Ion:107 Resp:    67040
Ion   Ratio   Lower   Upper
107   100
108    93.0    62.1   102.1
 77    44.6    23.5    63.5
 79    36.8    17.8    57.8
```

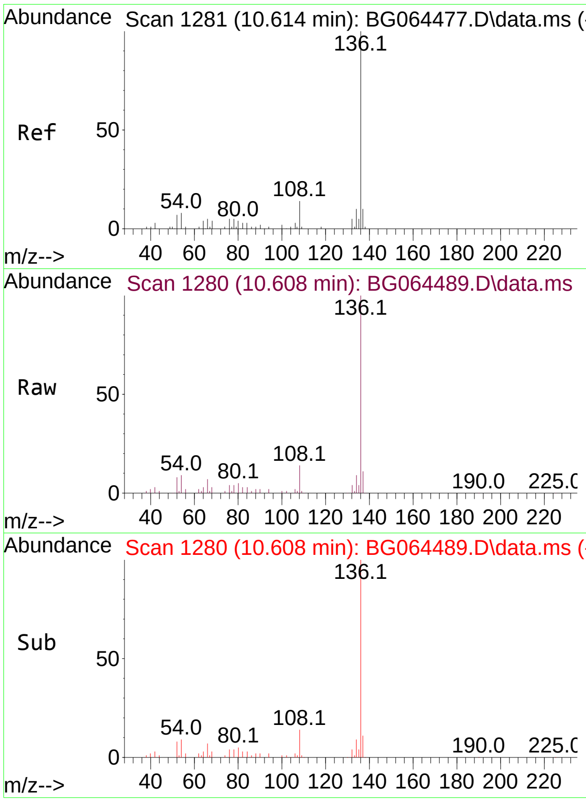


Sample Results: **BG064489.D**

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

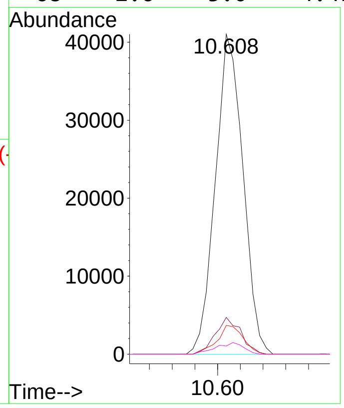
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

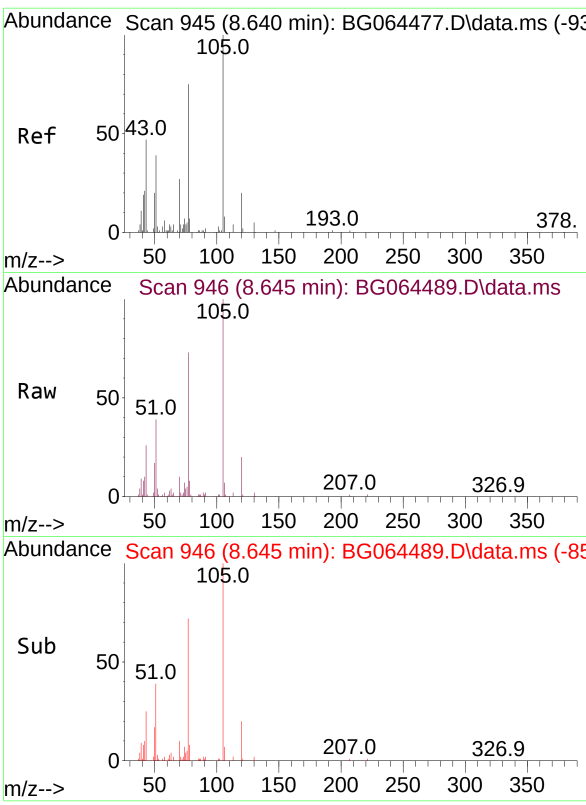



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.608 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:136 Resp: 6920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 8.3 | 12.5 |
| 54 | 9.0 | 6.2 | 9.4 |
| 68 | 2.6 | 3.0 | 4.4# |

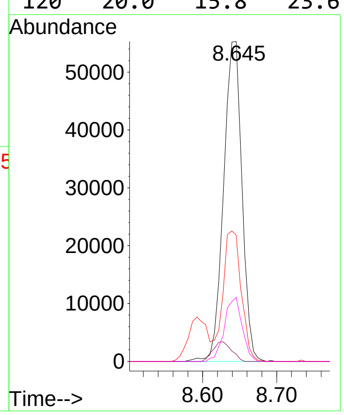


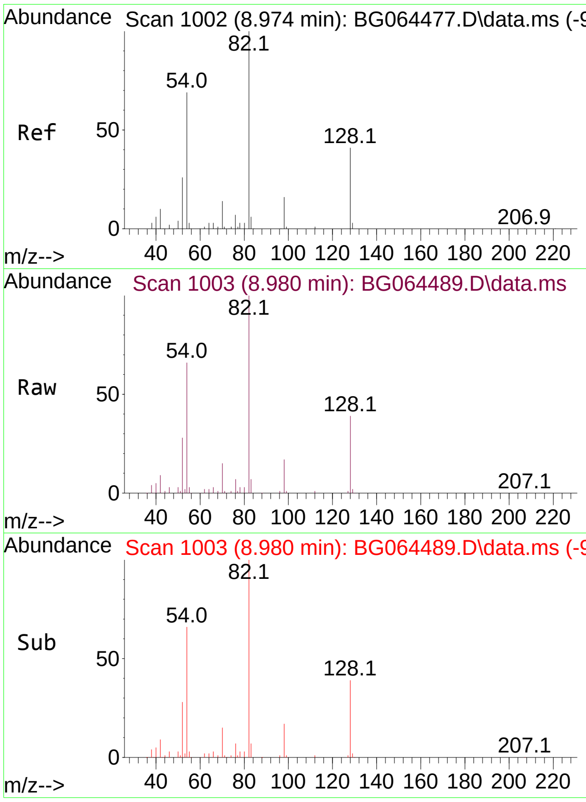




#22
Acetophenone
Concen: 57.044 ng
RT: 8.645 min Scan# 946
Delta R.T. 0.014 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:105 Resp: 95591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 2.3 | 2.8 | 4.2# |
| 51 | 39.4 | 33.0 | 49.4 |
| 120 | 20.0 | 15.8 | 23.6 |






#23
Nitrobenzene-d5
Concen:   94.324 ng
RT:   8.980 min   Scan# 1
Delta R.T.   0.014 min
Lab File:   BG064489.D
Acq:  3 Oct 2025   16:16

Tgt Ion: 82 Resp:   12140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.9 | 33.1 | 49.7 |
| 54 | 65.8 | 55.4 | 83.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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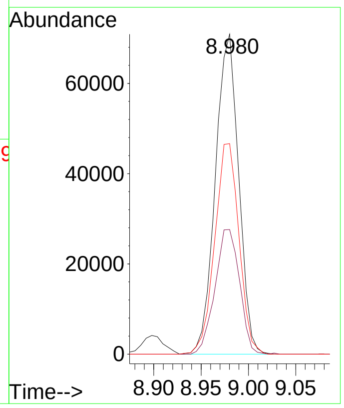
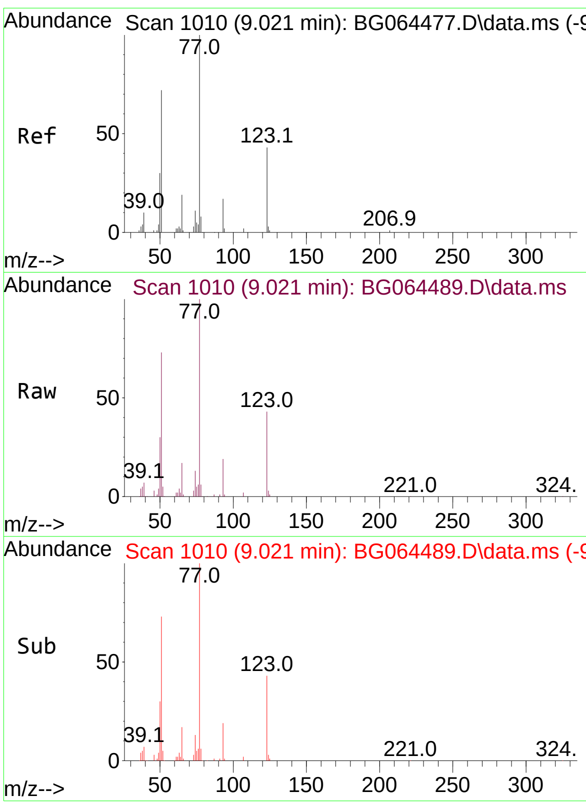
Reviewed By :Rahul Chavli   10/06/2025
Supervised By :Jagrut Upadhyay   10/06/2025

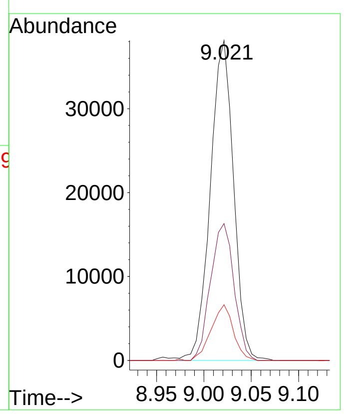


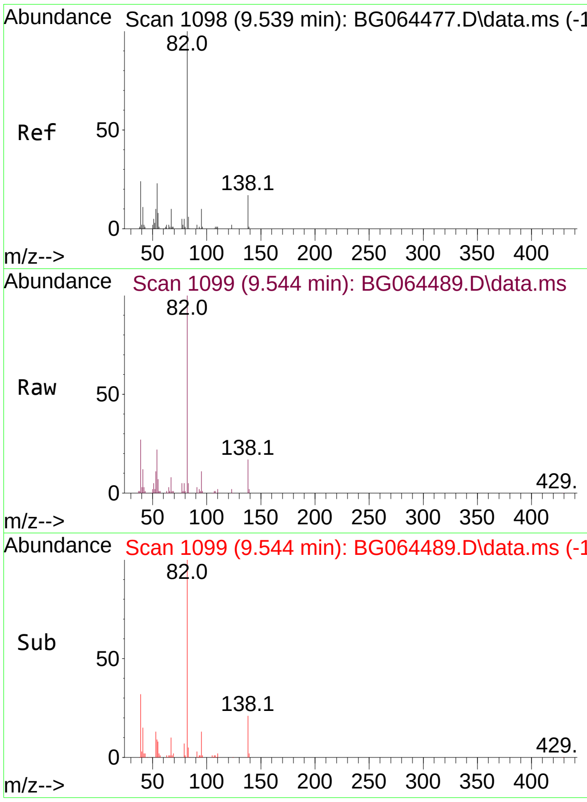




#24
Nitrobenzene
Concen:   50.705 ng
RT:   9.021 min   Scan# 1010
Delta R.T.   0.008 min
Lab File:   BG064489.D
Acq:  3 Oct 2025   16:16

Tgt Ion: 77 Resp:   65082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.8 | 34.4 | 51.6 |
| 65 | 17.4 | 14.8 | 22.2 |

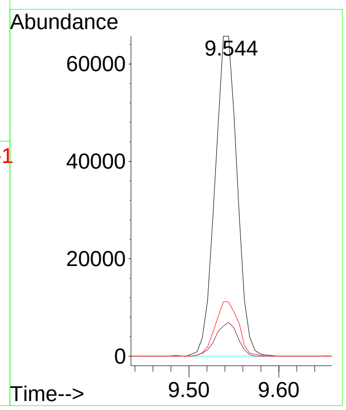





#25
Isophorone
Concen: 48.371 ng
RT: 9.544 min Scan# 1
Delta R.T. 0.014 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

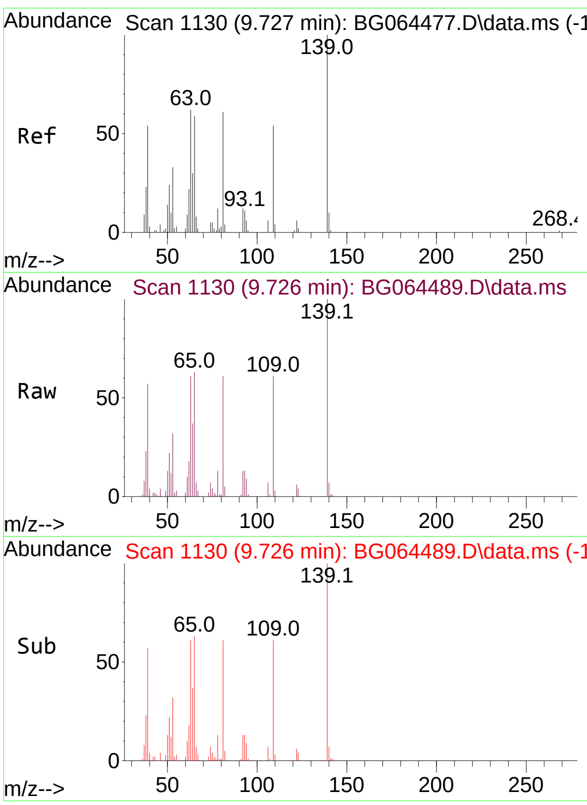
Tgt Ion: 82 Resp: 11278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 10.6 | 7.8 | 11.8 |
| 138 | 17.0 | 13.8 | 20.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

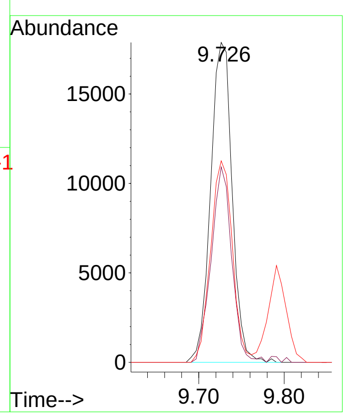
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#26
2-Nitrophenol
Concen: 49.147 ng
RT: 9.726 min Scan# 1130
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:139 Resp: 31396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 61.1 | 43.0 | 64.6 |
| 65 | 63.0 | 47.4 | 71.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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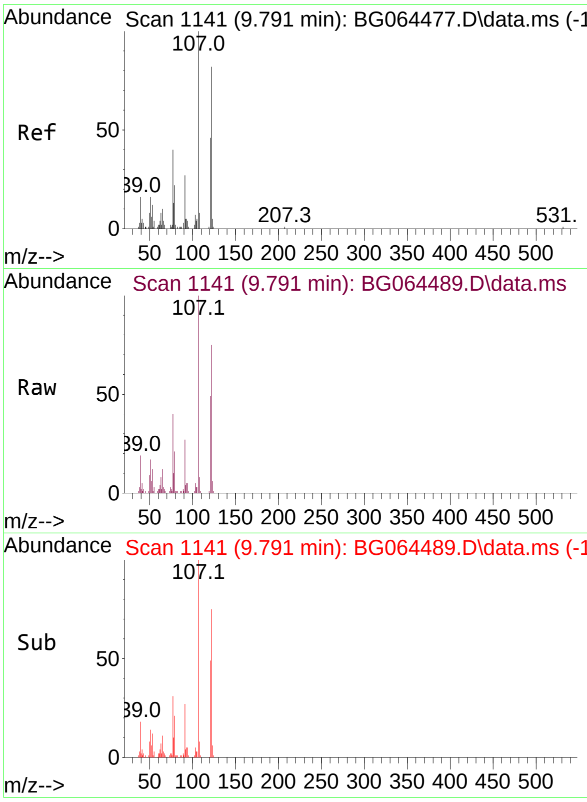
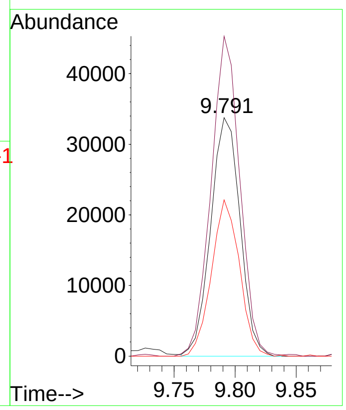
Supervised By :Jagrut Upadhyay 10/06/2025

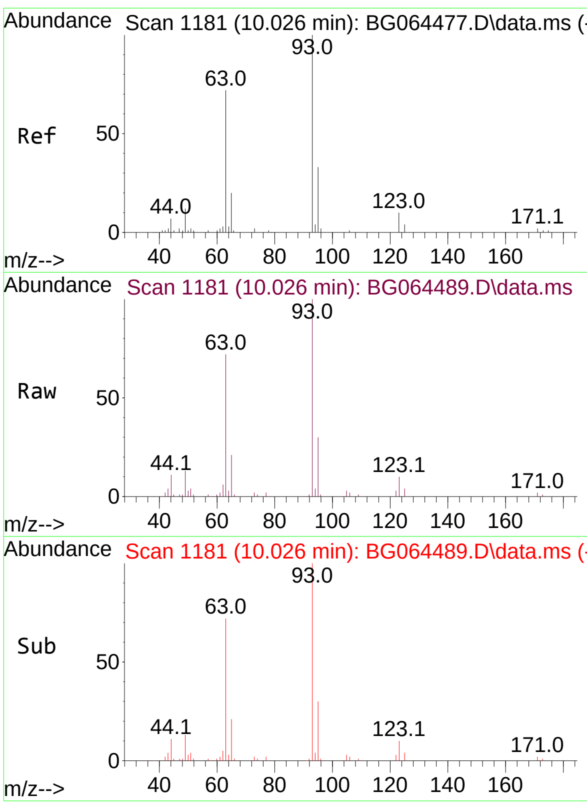



#27
2,4-Dimethylphenol
Concen: 57.985 ng
RT: 9.791 min Scan# 11
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:122 Resp: 56577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 134.2 | 98.3 | 147.5 |
| 121 | 65.6 | 44.7 | 67.1 |

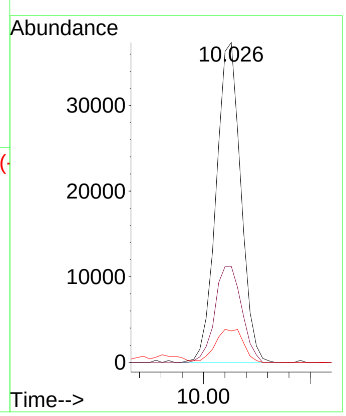


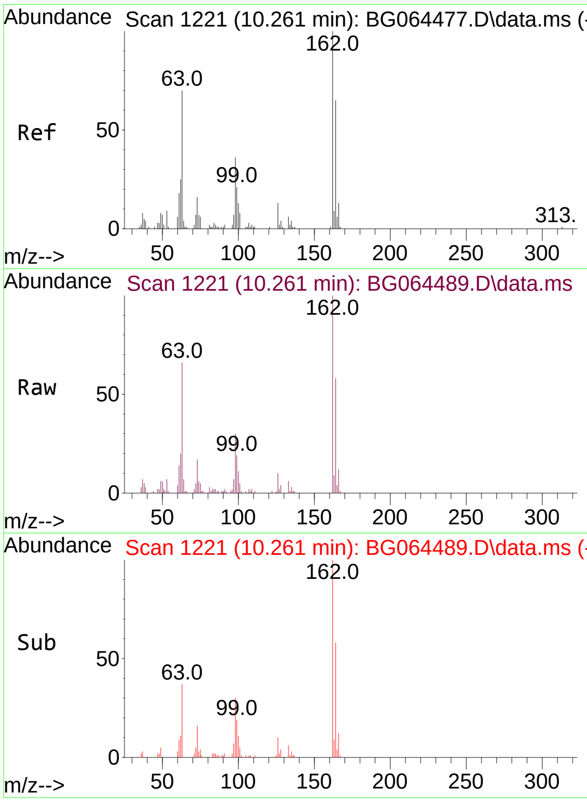




#28
bis(2-Chloroethoxy)methane
Concen: 50.474 ng
RT: 10.026 min Scan# 1181
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion: 93 Resp: 59992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 30.0 | 26.5 | 39.7 |
| 123 | 9.8 | 8.9 | 13.3 |






#29
2,4-Dichlorophenol
Concen: 55.844 ng
RT: 10.261 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

Tgt Ion:162 Resp: 6300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 58.5 | 45.4 | 85.4 |
| 98 | 30.1 | 16.4 | 56.4 |

**Manual Integrations**
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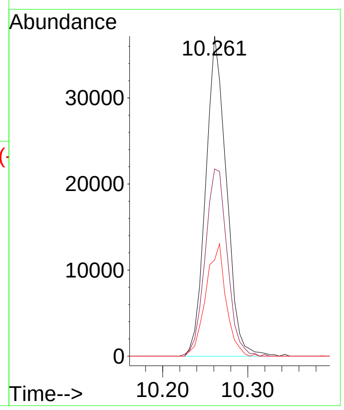
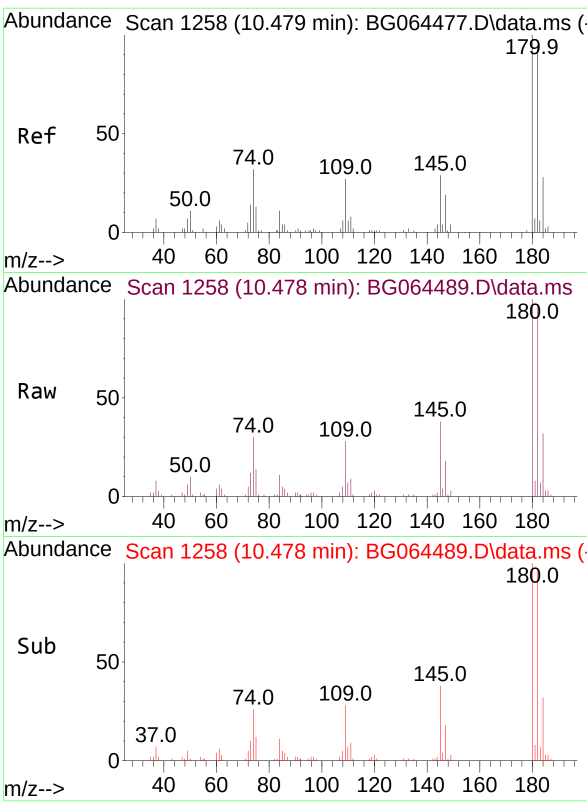
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

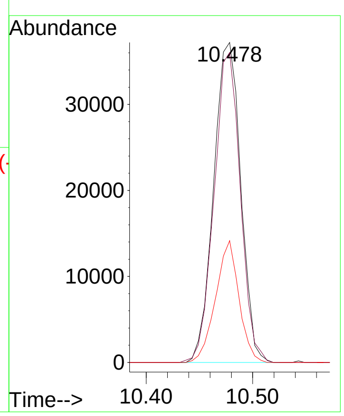


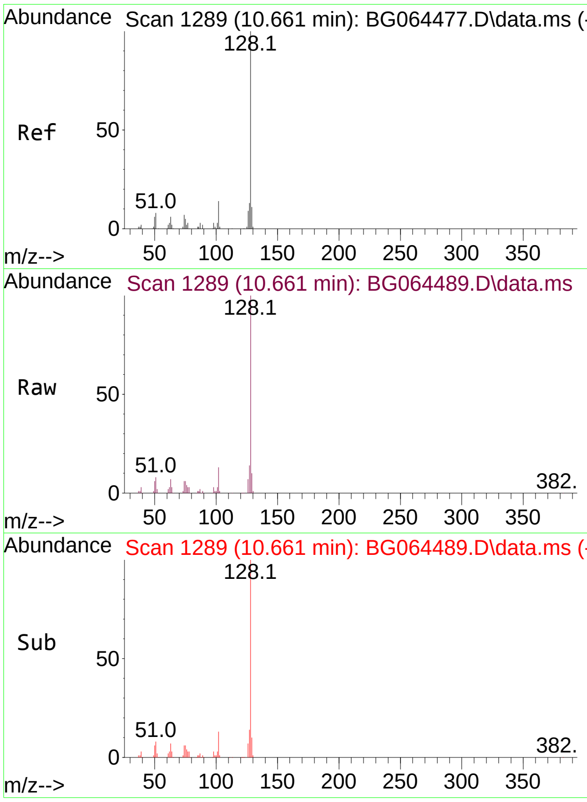




#30
1,2,4-Trichlorobenzene
Concen: 53.523 ng
RT: 10.478 min Scan# 1258
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:180 Resp: 65847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.8 | 75.4 | 113.2 |
| 145 | 38.1 | 23.2 | 34.8# |

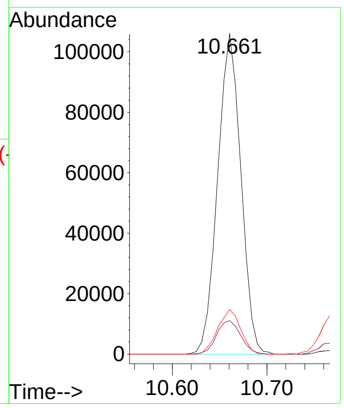





#31
Naphthalene
Concen: 50.722 ng
RT: 10.661 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:128 Resp: 18076

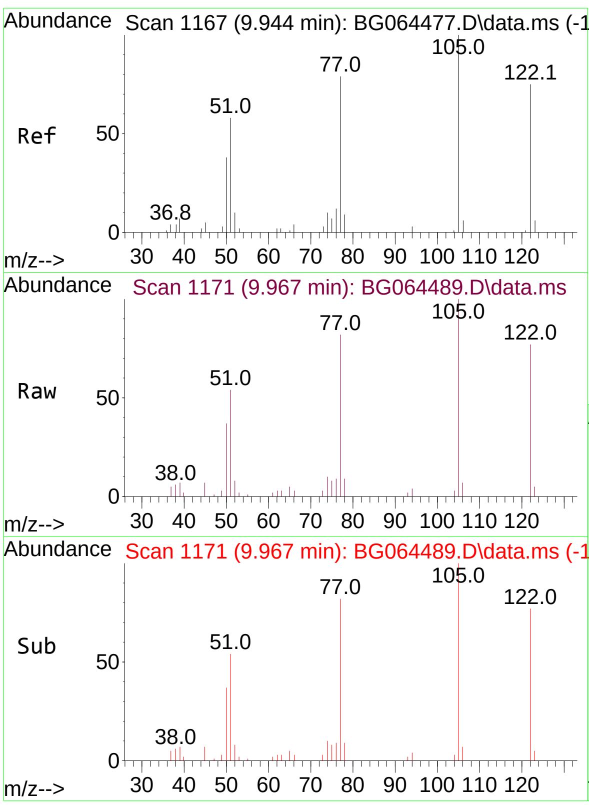
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.5 | 8.7 | 13.1 |
| 127 | 13.9 | 10.2 | 15.2 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**

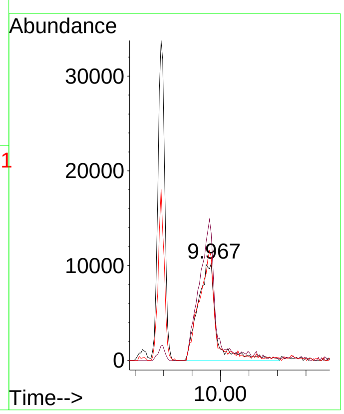
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#32
Benzoic acid
Concen: 61.961 ng m
RT: 9.967 min Scan# 1171
Delta R.T. 0.079 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:122 Resp: 46416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 130.5 | 113.9 | 153.9 |
| 77 | 106.4 | 86.1 | 126.1 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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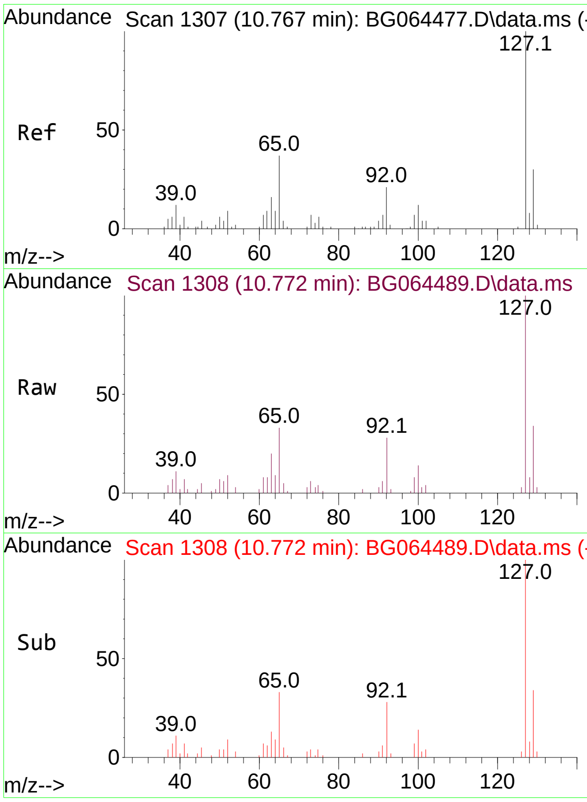
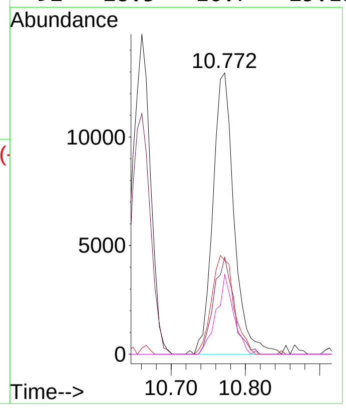
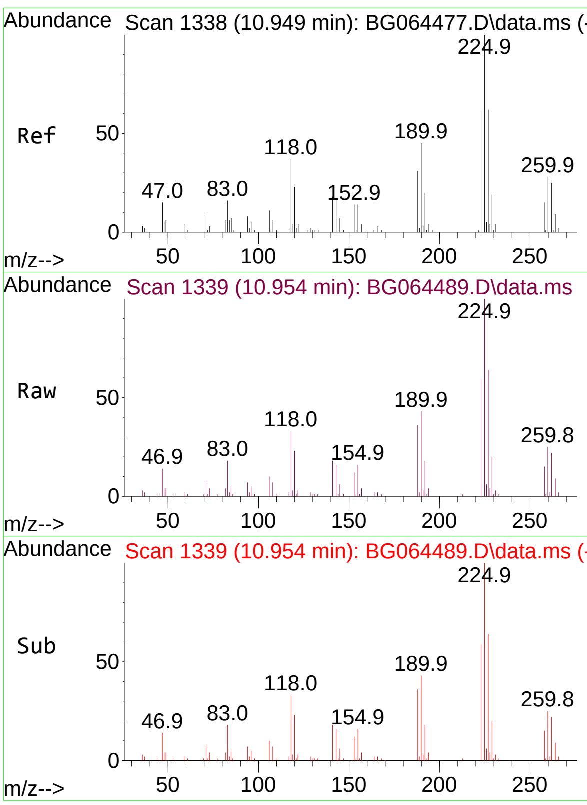
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

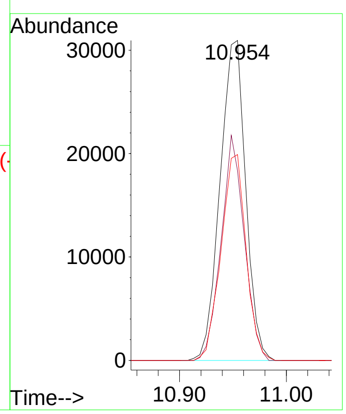



```
#33
4-Chloroaniline
Concen:   18.843 ng
RT:  10.772 min  Scan# 1
Delta R.T.  0.008 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:127 Resp:   2577
Ion  Ratio  Lower  Upper
127  100
129   34.4   24.2   36.4
 65   33.3   29.6   44.4
 92   28.3   16.7   25.1#
```

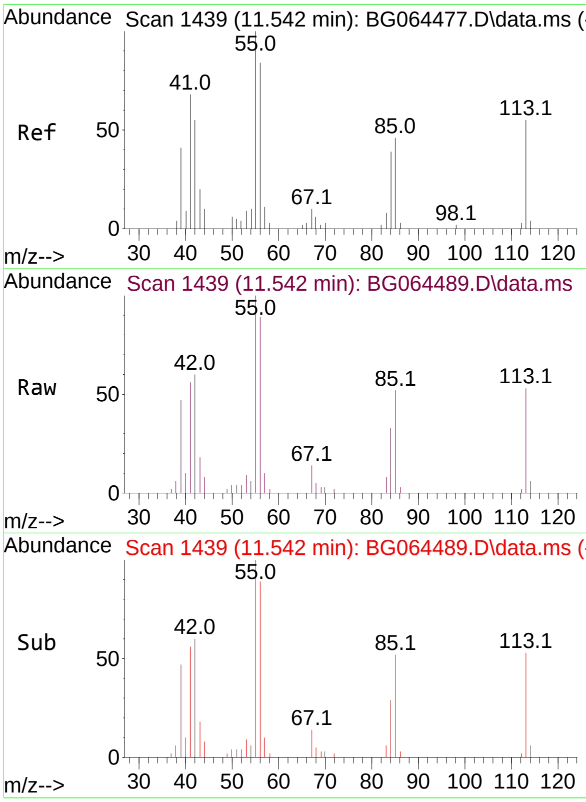



```
#34
Hexachlorobutadiene
Concen:   49.138 ng
RT:  10.954 min  Scan# 1339
Delta R.T.  0.008 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:225 Resp:    51772
Ion  Ratio  Lower  Upper
225  100
223   59.3   49.0   73.6
227   64.3   49.9   74.9
```



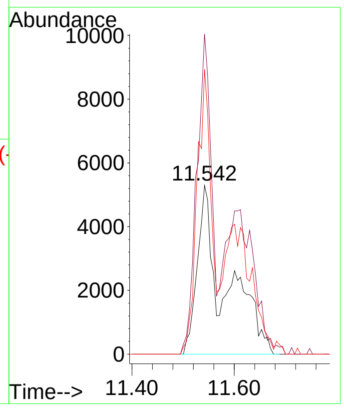
Sample Results: **BG064489.D**




#35
Caprolactam
Concen: 51.960 ng m
RT: 11.542 min Scan# 14
Delta R.T. 0.032 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:113 Resp: 20070

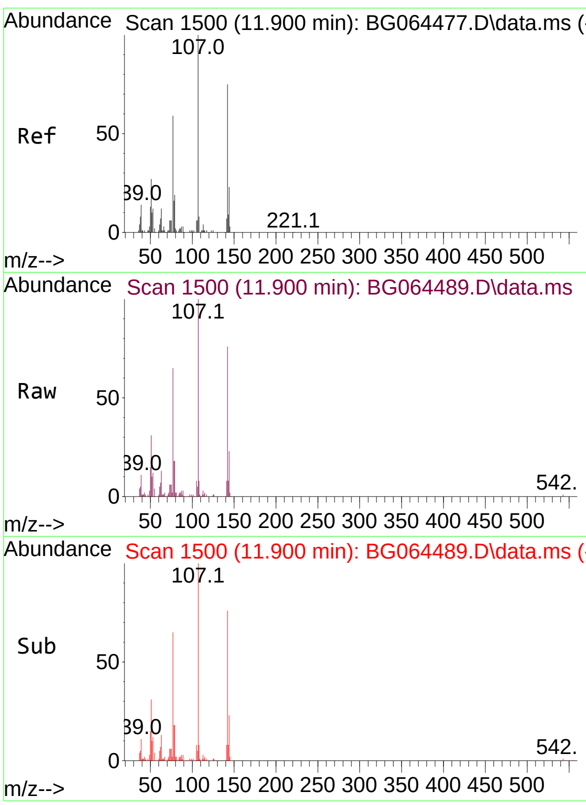
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 189.6 | 162.0 | 202.0 |
| 56 | 168.7 | 134.6 | 174.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

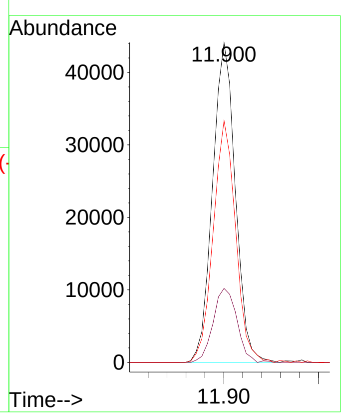
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

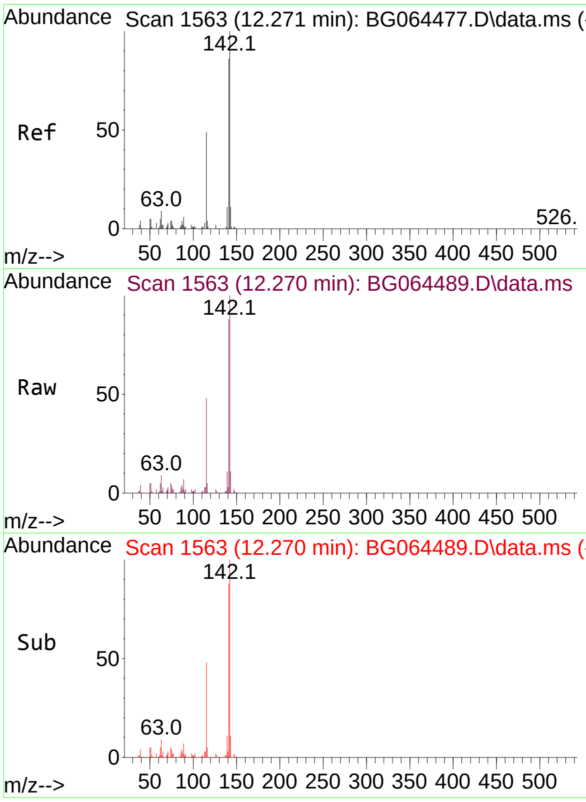



#36
4-Chloro-3-methylphenol
Concen: 53.851 ng
RT: 11.900 min Scan# 1500
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:107 Resp: 73890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.1 | 18.7 | 28.1 |
| 142 | 75.6 | 60.2 | 90.2 |






#37
2-Methylnaphthalene
Concen: 46.176 ng
RT: 12.270 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:142 Resp: 12632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.0 | 68.7 | 103.1 |
| 115 | 48.2 | 39.3 | 58.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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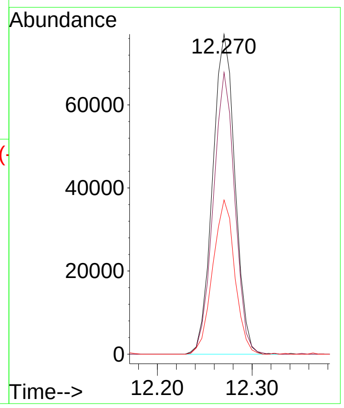
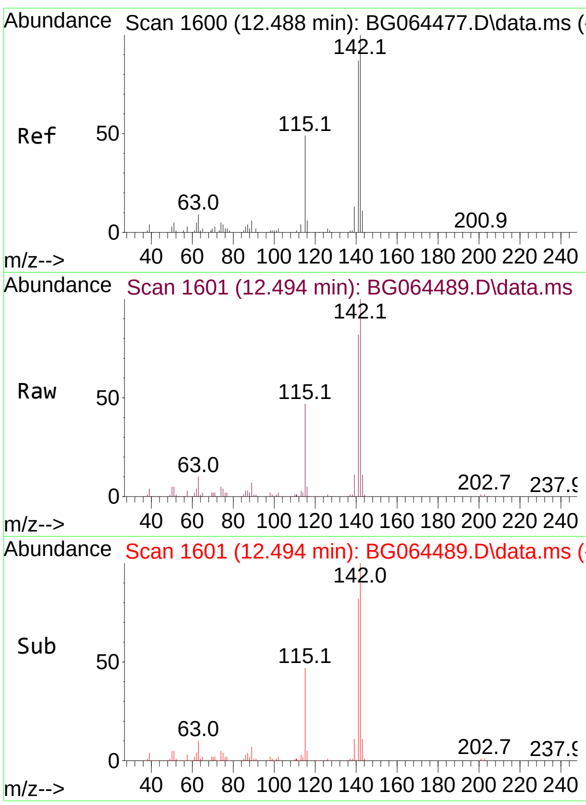
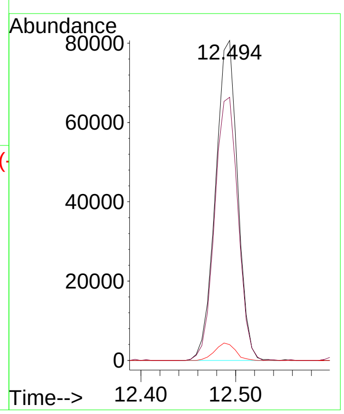


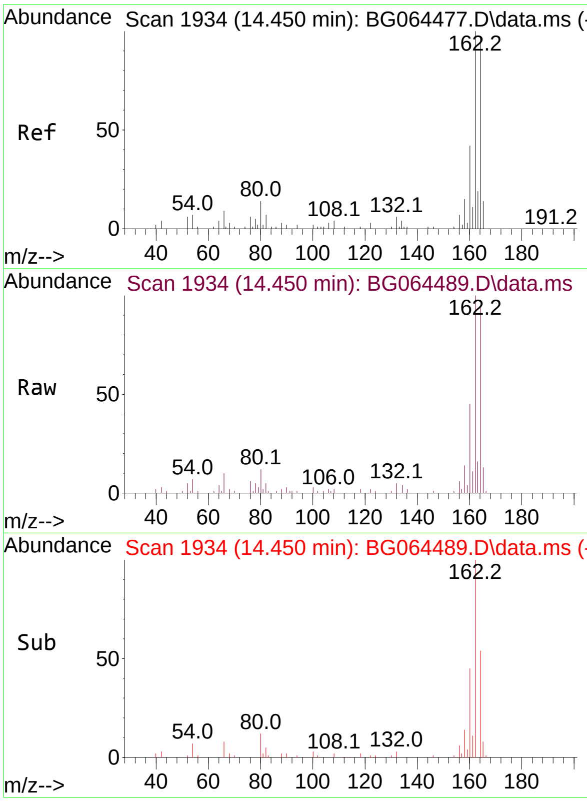




#38
1-Methylnaphthalene
Concen: 48.184 ng
RT: 12.494 min Scan# 1601
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:142 Resp: 131440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.2 | 69.8 | 104.8 |
| 116 | 4.9 | 4.6 | 6.8 |





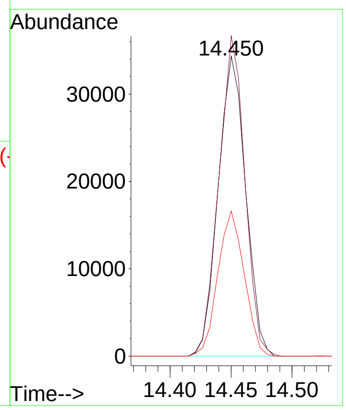

#39
Acenaphthene-d10
Concen:   20.000 ng
RT:  14.450 min   Scan# 19
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025   16:16

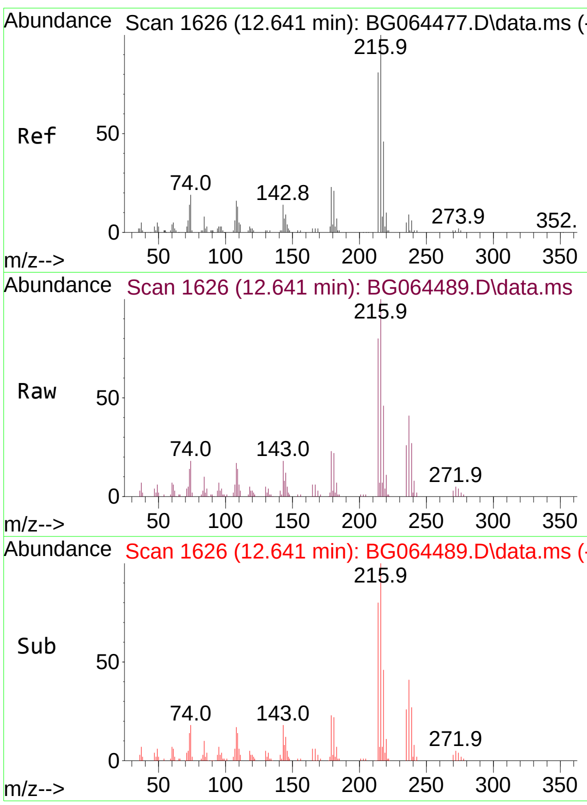
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli    10/06/2025
Supervised By :Jagrut Upadhyay    10/06/2025

Tgt Ion:164 Resp:   5376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.7 | 82.2 | 123.2 |
| 160 | 48.4 | 34.3 | 51.5 |

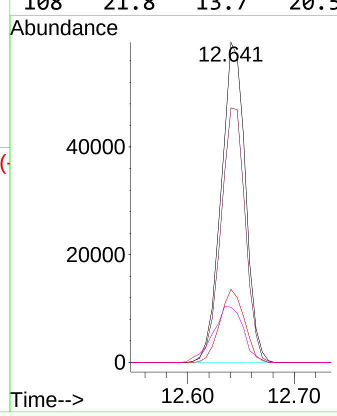


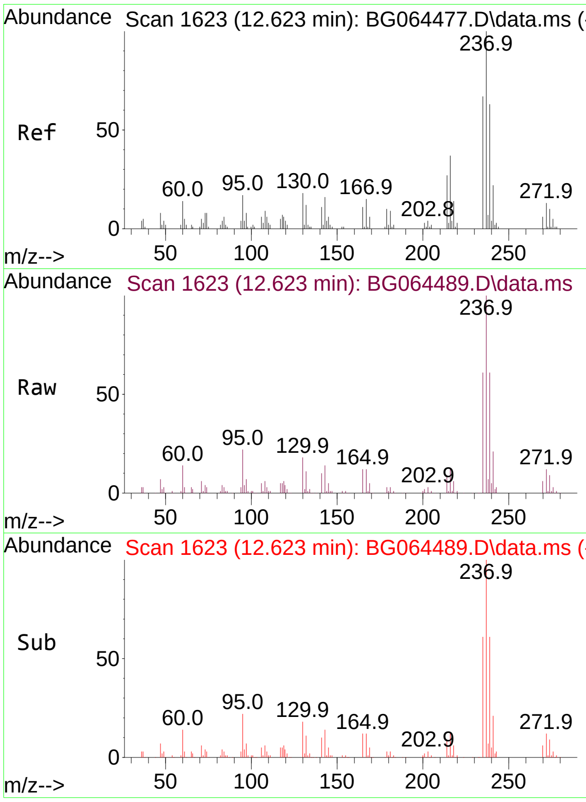




#40
1,2,4,5-Tetrachlorobenzene
Concen:   54.249 ng
RT:  12.641 min   Scan# 1626
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025   16:16

Tgt Ion:216 Resp:   94170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 80.2 | 62.5 | 93.7 |
| 179 | 23.0 | 17.0 | 25.6 |
| 108 | 21.8 | 13.7 | 20.5# |






#41
Hexachlorocyclopentadiene
Concen: 146.146 ng
RT: 12.623 min Scan# 16
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:237 Resp: 13270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 61.4 | 46.9 | 86.9 |
| 272 | 11.8 | 0.0 | 32.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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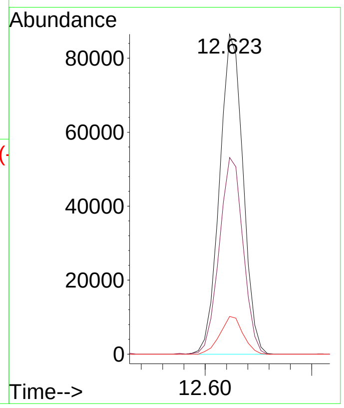
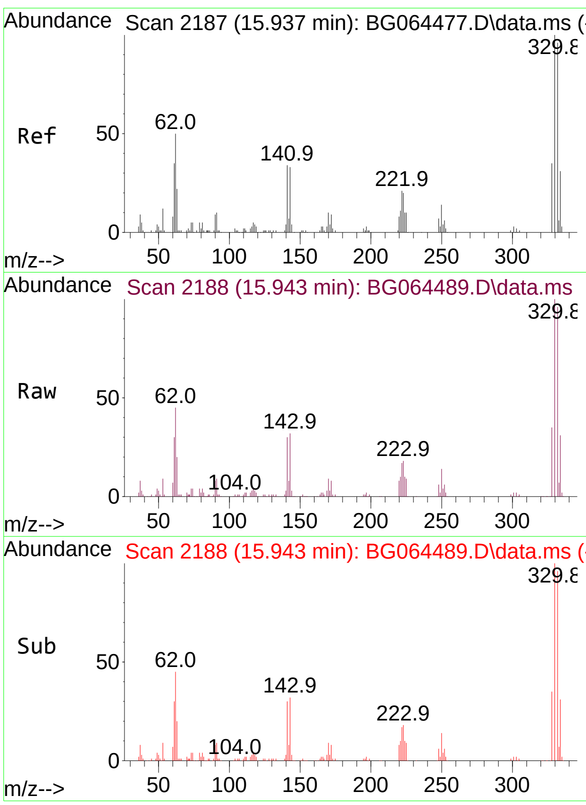
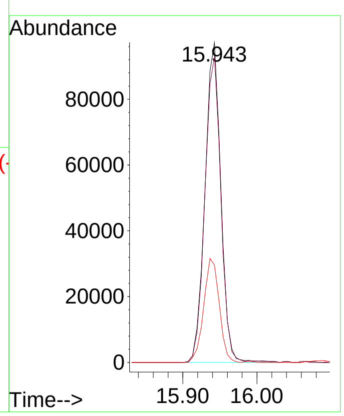



#42
2,4,6-Tribromophenol
Concen: 148.856 ng
RT: 15.943 min Scan# 2188
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:330 Resp: 145062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.7 | 77.4 | 116.0 |
| 141 | 31.7 | 25.8 | 38.6 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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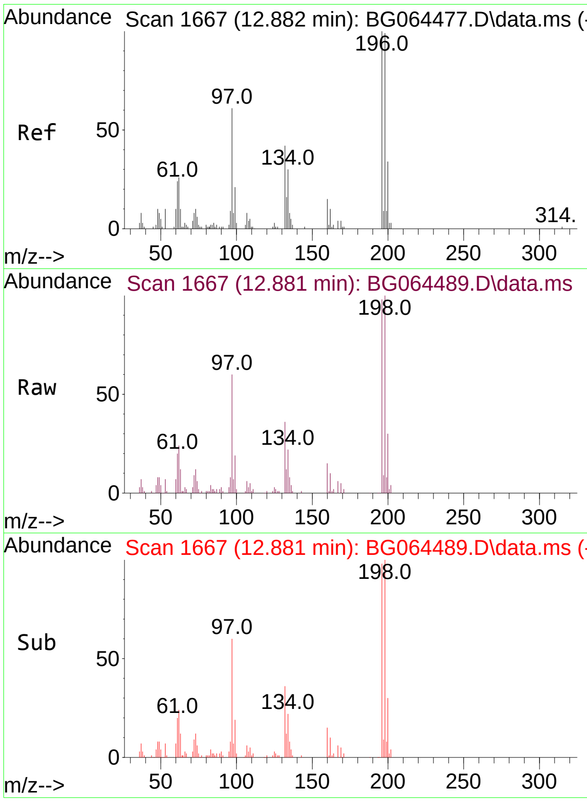
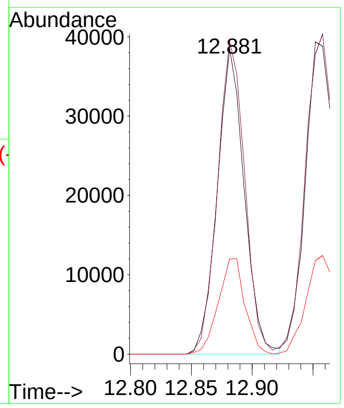
Supervised By :Jagrut Upadhyay 10/06/2025

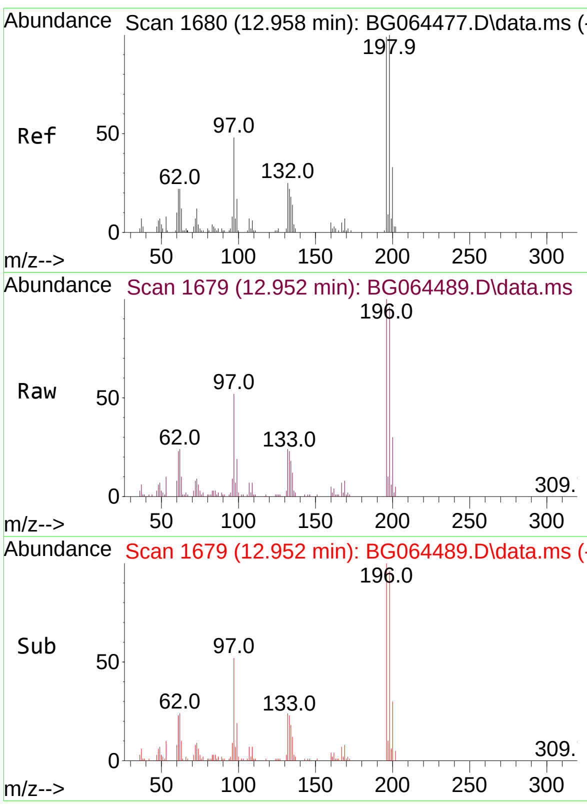



#43
2,4,6-Trichlorophenol
Concen: 53.526 ng
RT: 12.881 min Scan# 16
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:196 Resp: 5939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.4 | 79.3 | 118.9 |
| 200 | 31.2 | 27.4 | 41.2 |

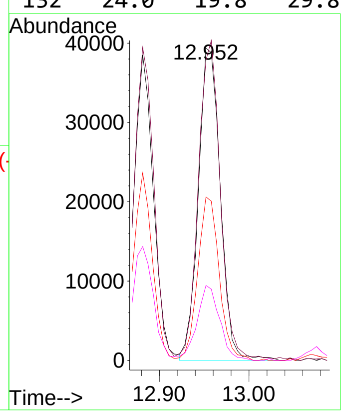



#44
2,4,5-Trichlorophenol
Concen: 54.393 ng
RT: 12.952 min Scan# 1679
Delta R.T. -0.004 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:196 Resp: 67385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 96.1 | 80.3 | 120.5 |
| 97 | 52.4 | 39.4 | 59.0 |
| 132 | 24.0 | 19.8 | 29.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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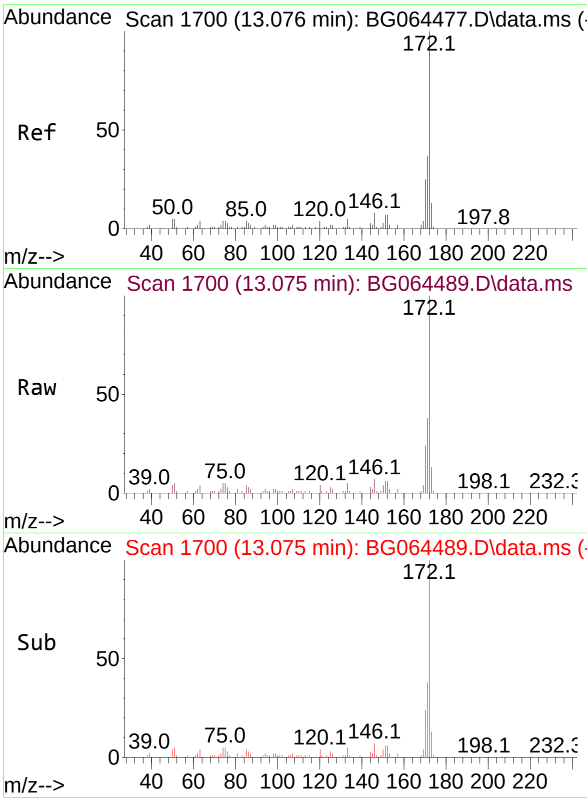
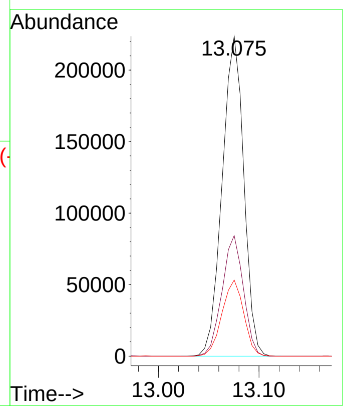
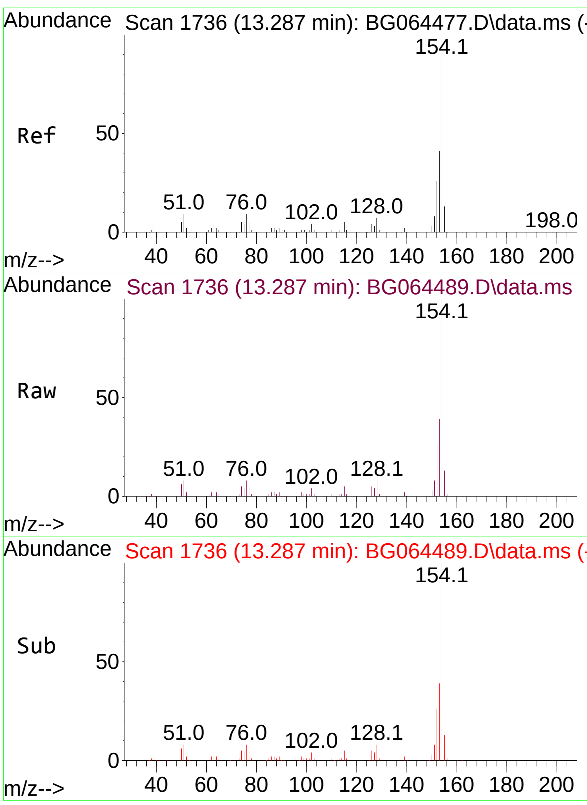


#45
2-Fluorobiphenyl
Concen: 91.796 ng
RT: 13.075 min Scan# 1700
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:172 Resp: 334812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.7 | 29.6 | 44.4 |
| 170 | 23.8 | 20.2 | 30.2 |

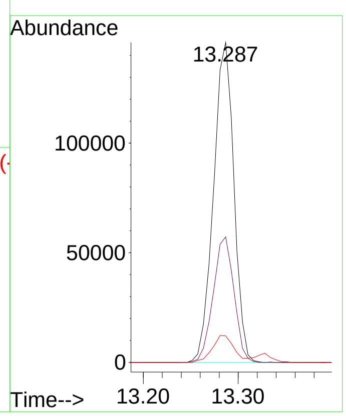




#46
1,1'-Biphenyl
Concen: 56.402 ng
RT: 13.287 min Scan# 1736
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:154 Resp: 218091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.2 | 20.7 | 60.7 |
| 76 | 8.3 | 0.0 | 29.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
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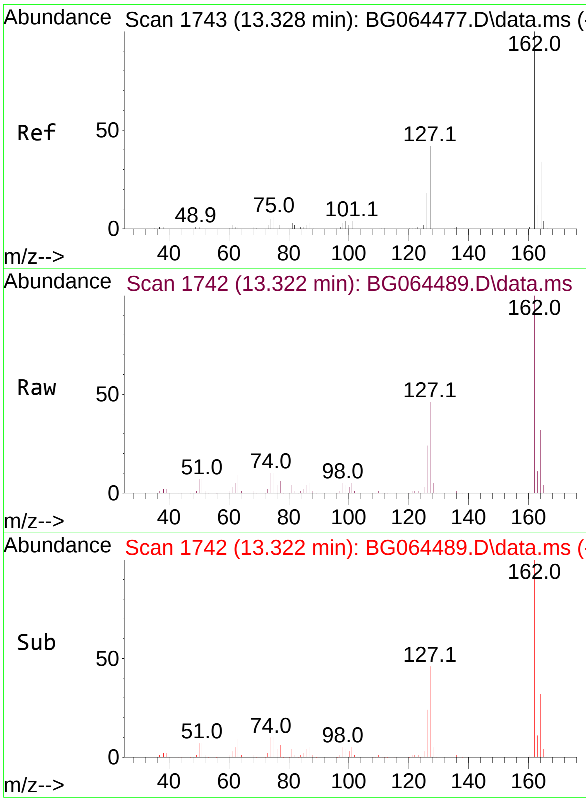
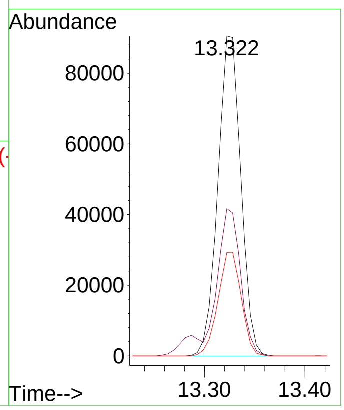
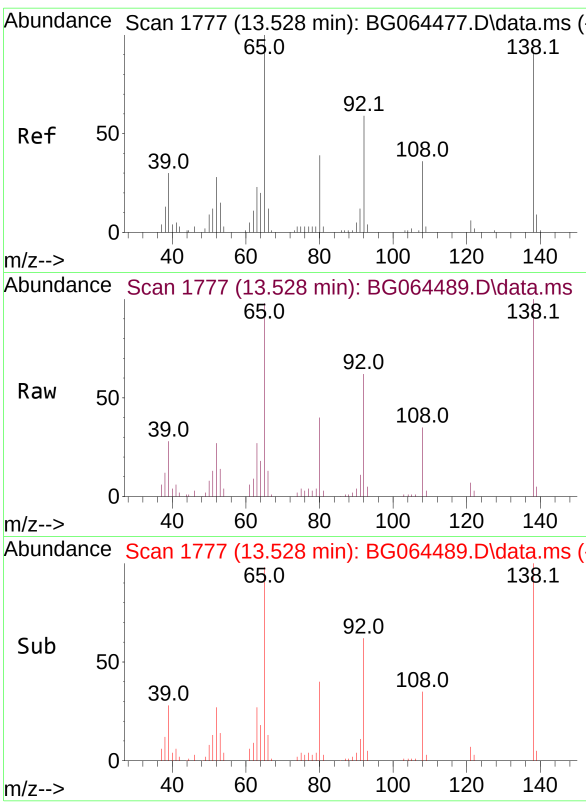



#47
2-Chloronaphthalene
Concen: 50.112 ng
RT: 13.322 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:162 Resp: 14467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 46.0 | 35.8 | 53.8 |
| 164 | 32.3 | 27.2 | 40.8 |

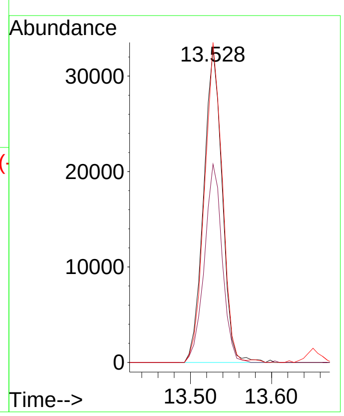



#48
2-Nitroaniline
Concen: 53.007 ng
RT: 13.528 min Scan# 1777
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion: 65 Resp: 52229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 63.3 | 47.0 | 70.6 |
| 138 | 102.0 | 73.5 | 110.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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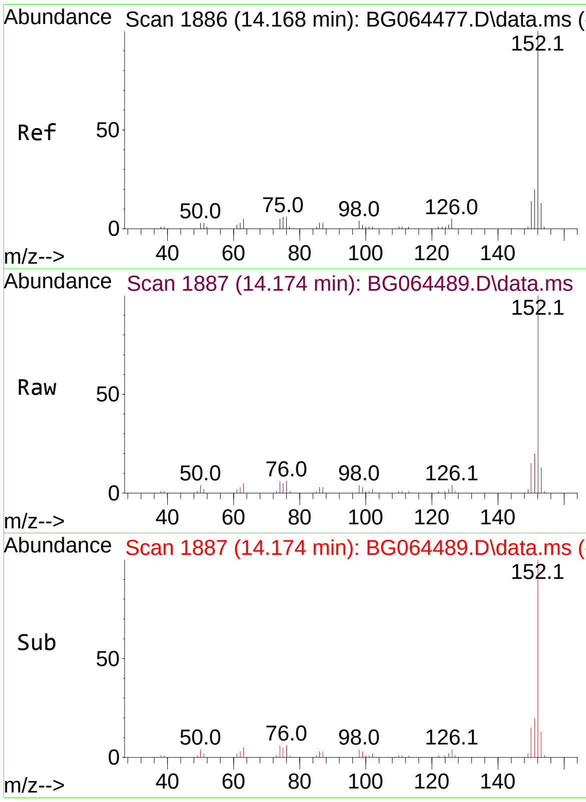
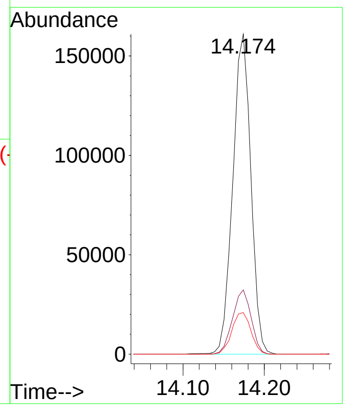
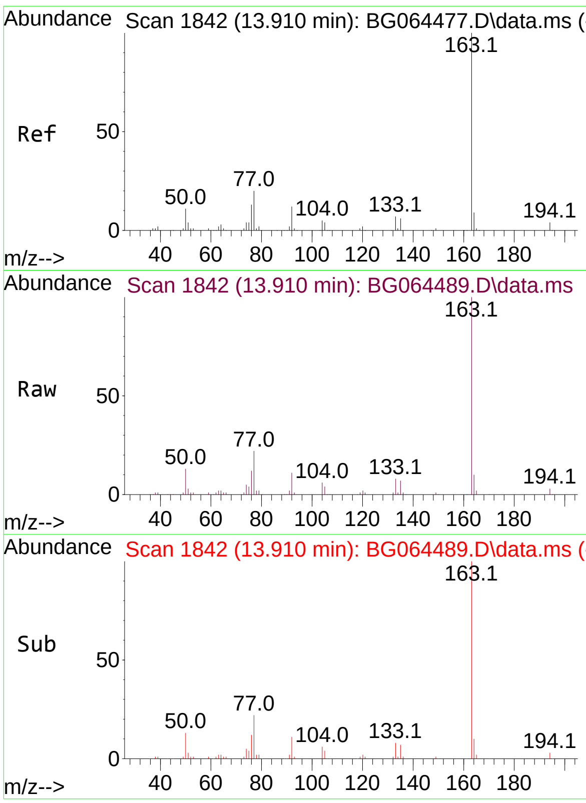



#49
Acenaphthylene
Concen: 57.947 ng
RT: 14.174 min Scan# 18
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:152 Resp: 24833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 15.8 | 23.6 |
| 153 | 13.0 | 10.6 | 15.8 |

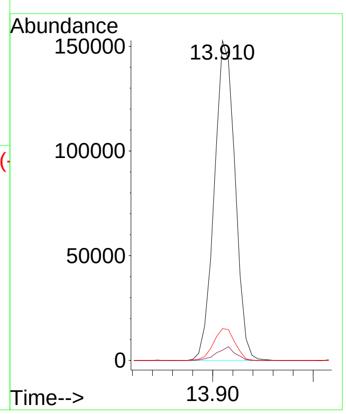


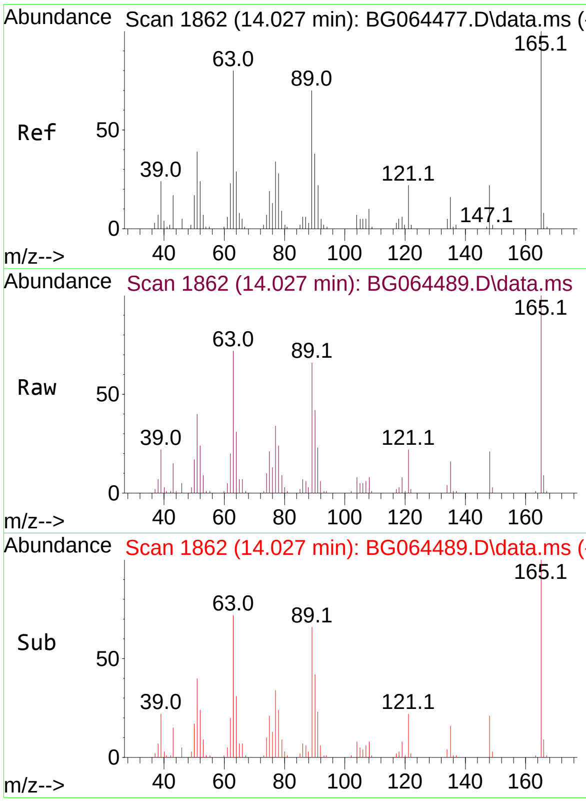




#50
Dimethylphthalate
Concen: 52.087 ng
RT: 13.910 min Scan# 1842
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:163 Resp: 219320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.2 | 2.9 | 4.3 |
| 164 | 9.9 | 7.4 | 11.0 |

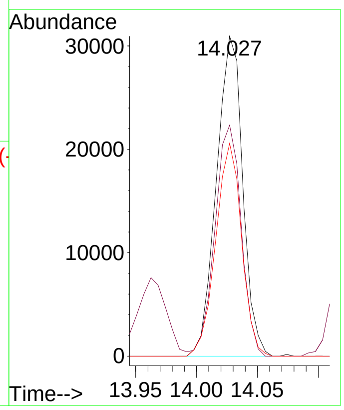





#51
2,6-Dinitrotoluene
Concen: 53.043 ng
RT: 14.027 min Scan# 1
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

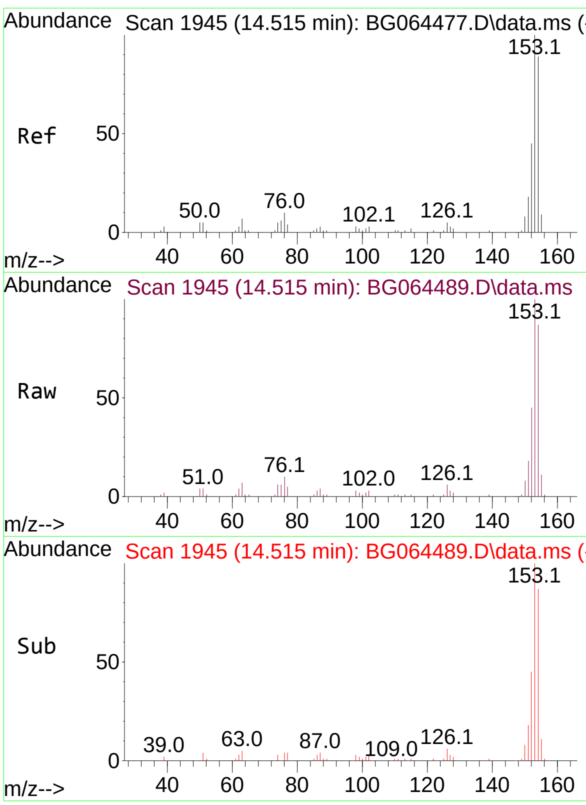
Tgt Ion:165 Resp: 4652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 72.2 | 63.9 | 95.9 |
| 89 | 66.5 | 56.1 | 84.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

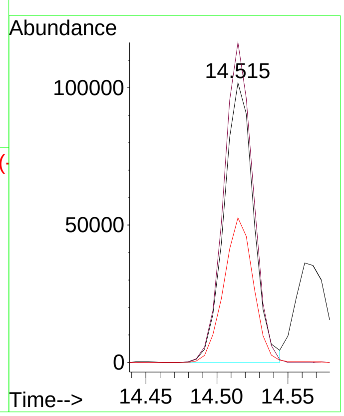
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

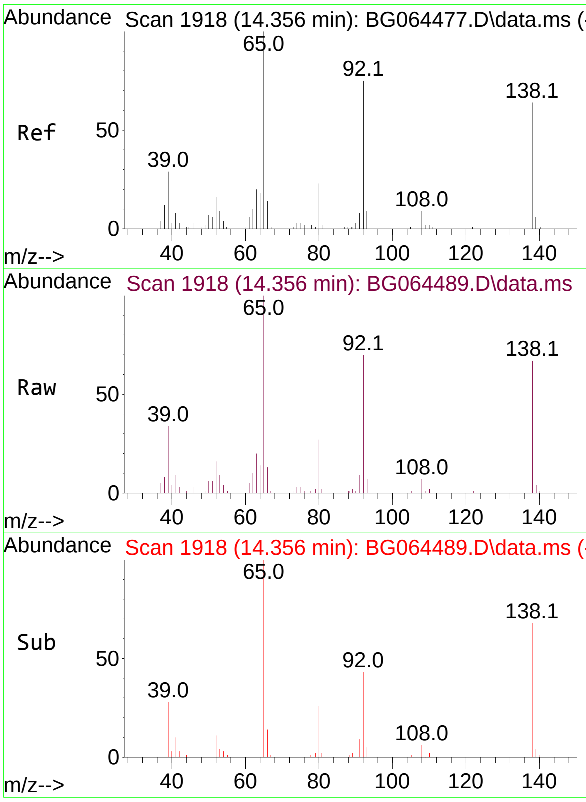



#52
Acenaphthene
Concen: 49.831 ng
RT: 14.515 min Scan# 1945
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:154 Resp: 148370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.5 | 90.2 | 135.4 |
| 152 | 51.7 | 40.2 | 60.4 |






#53
3-Nitroaniline
Concen: 30.021 ng
RT: 14.356 min Scan# 19
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

Tgt Ion:138 Resp: 2428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 10.5 | 10.6 | 15.8# |
| 92 | 105.2 | 93.2 | 139.8 |

**Manual Integrations**
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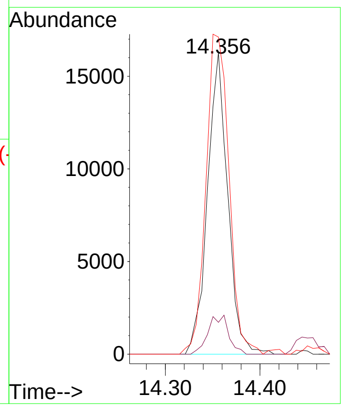
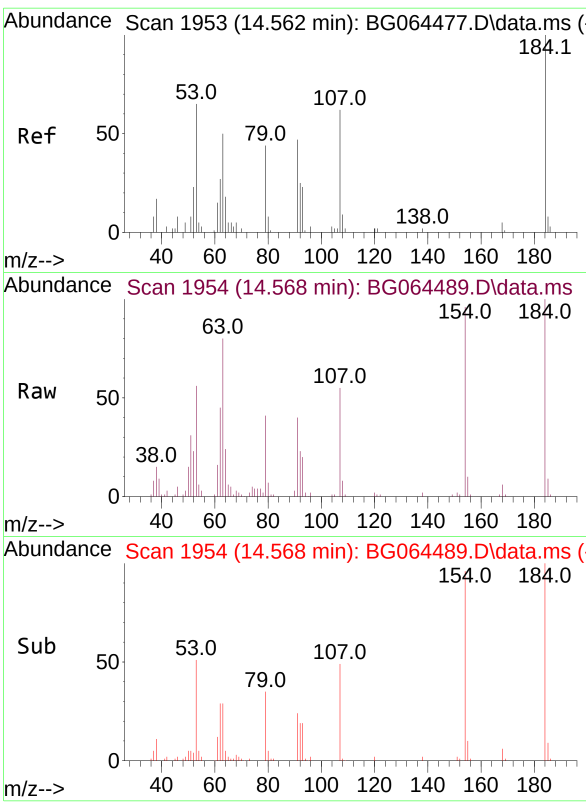
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

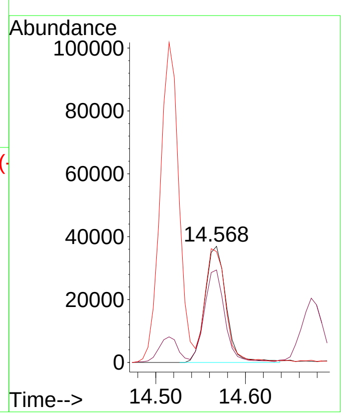



#54
2,4-Dinitrophenol
Concen: 95.491 ng
RT: 14.568 min Scan# 1954
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:184 Resp: 60734

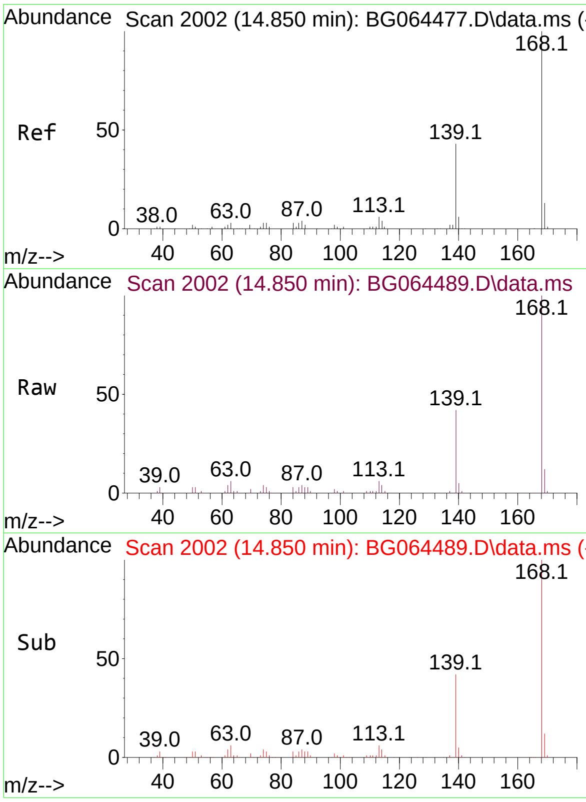
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 79.6 | 69.0 | 103.4 |
| 154 | 95.5 | 95.6 | 143.4# |



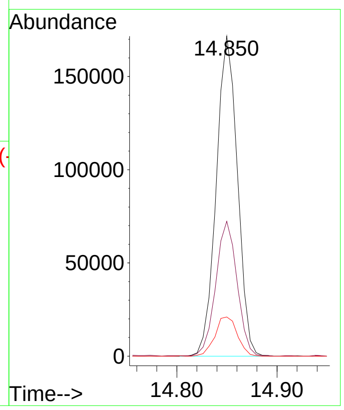
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

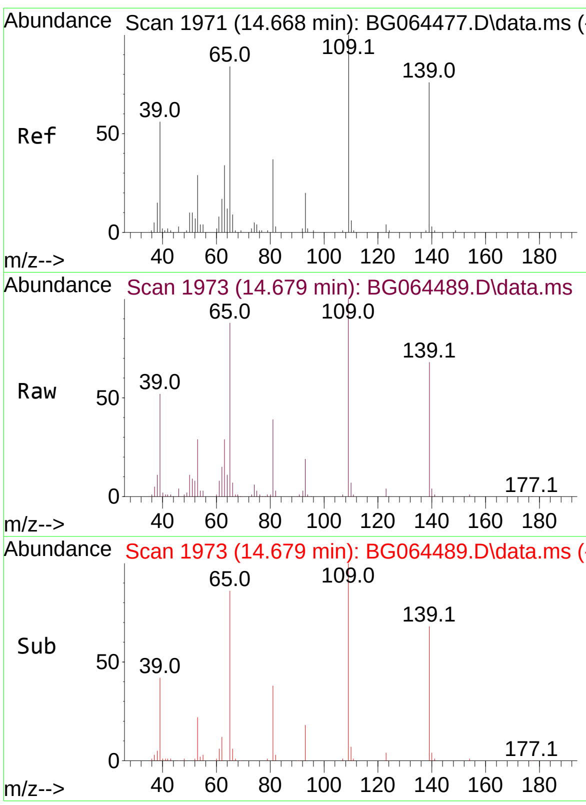
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

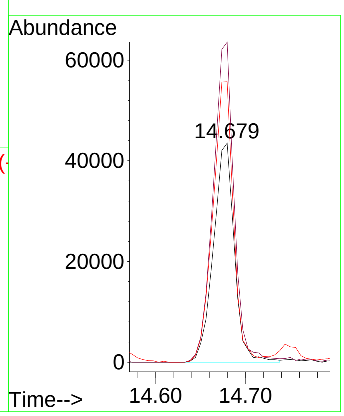



```
#55
Dibenzofuran
Concen:   51.403 ng
RT:  14.850 min  Scan# 20
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:168 Resp:  252708
Ion  Ratio  Lower  Upper
168  100
139   42.1   34.0   51.0
169   12.2   10.2   15.2
```



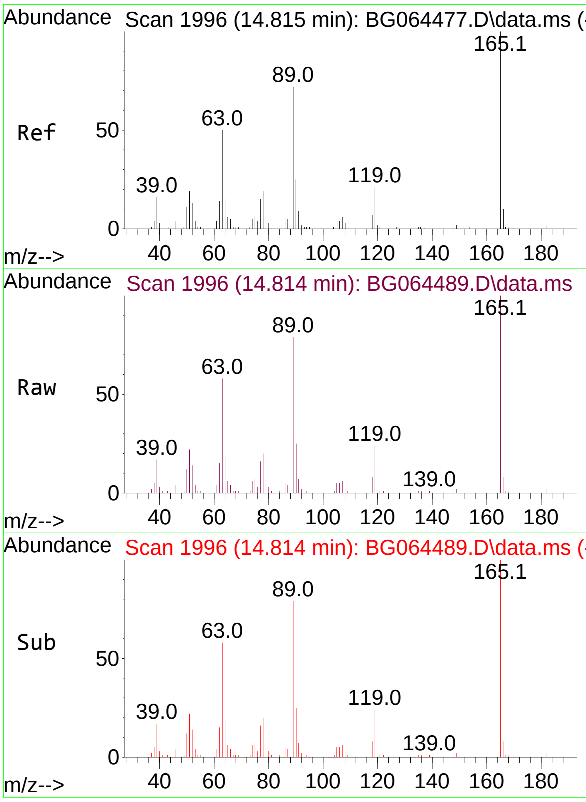

```
#56
4-Nitrophenol
Concen:  110.857 ng
RT:  14.679 min  Scan# 1973
Delta R.T.  0.014 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:139 Resp:   70603
Ion  Ratio  Lower  Upper
139  100
109  146.1  111.8  151.8
 65  128.1   91.1  131.1
```



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

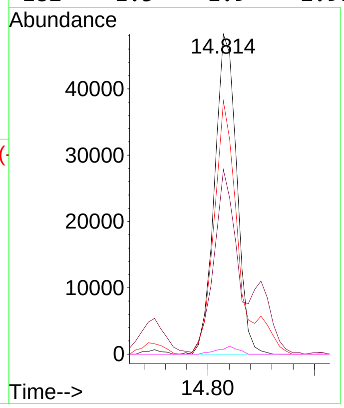
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

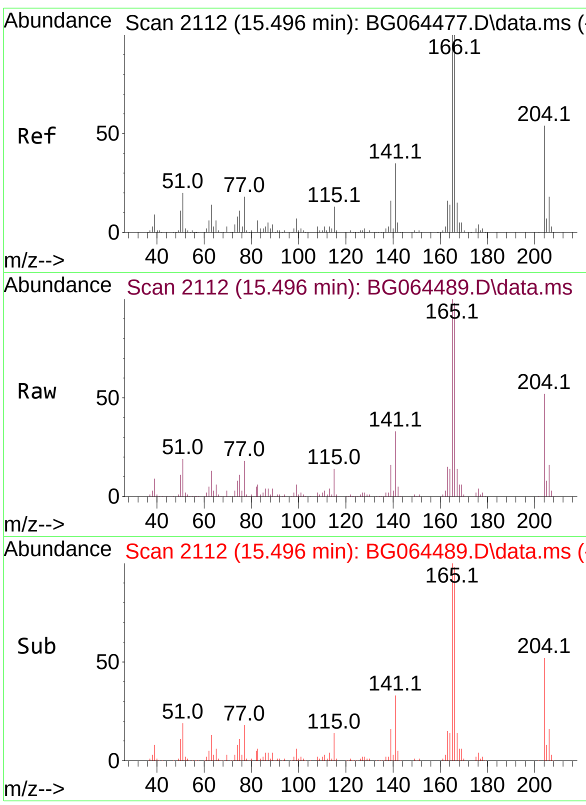



#57
2,4-Dinitrotoluene
Concen: 52.240 ng
RT: 14.814 min Scan# 19
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:165 Resp: 70046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 57.6 | 40.4 | 60.6 |
| 89 | 79.1 | 57.3 | 85.9 |
| 182 | 1.5 | 1.9 | 2.9# |

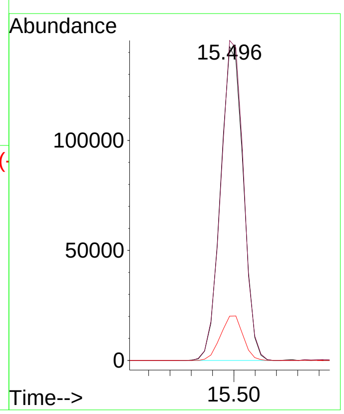


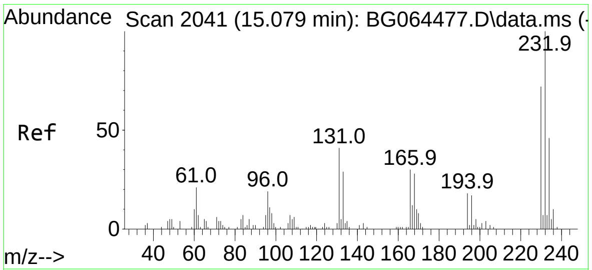

#58
Fluorene
Concen: 52.080 ng
RT: 15.496 min Scan# 2112
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

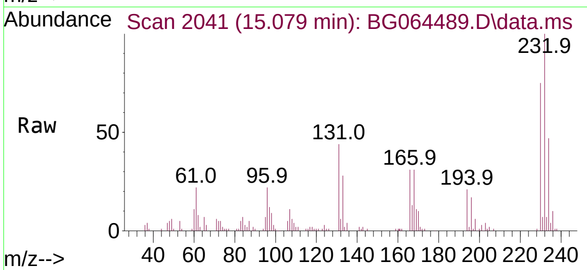
Tgt Ion:166 Resp: 212852

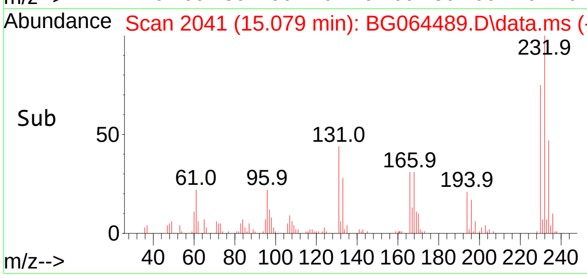
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.0 | 79.8 | 119.6 |
| 167 | 14.1 | 11.7 | 17.5 |



Sample Results: **BG064489.D**




#59
2,3,4,6-Tetrachlorophenol
Concen: 54.690 ng m
RT: 15.079 min Scan# 20
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

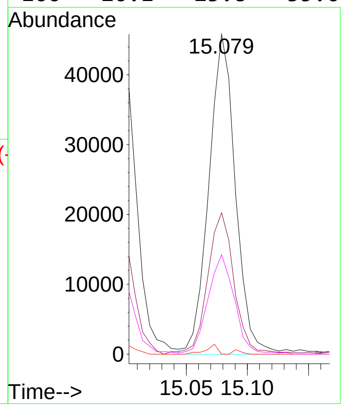
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

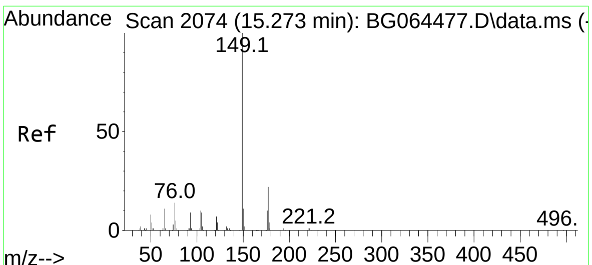
Tgt Ion:232 Resp: 6914

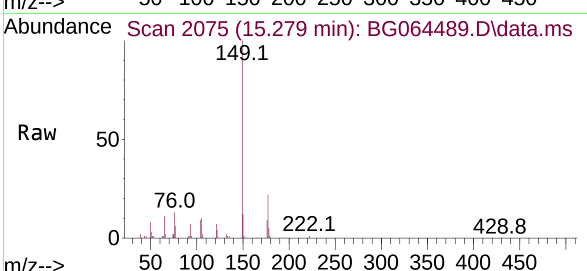
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 39.3 | 35.0 | 52.4 |
| 130 | 2.8 | 2.0 | 3.0 |
| 166 | 26.1 | 23.8 | 35.6 |

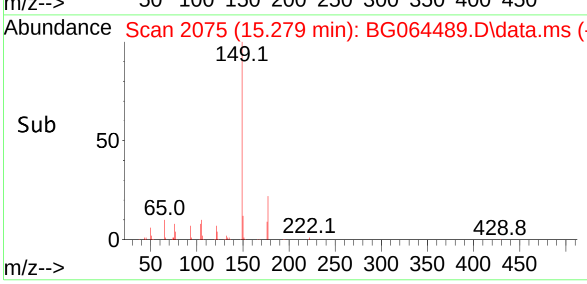
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025



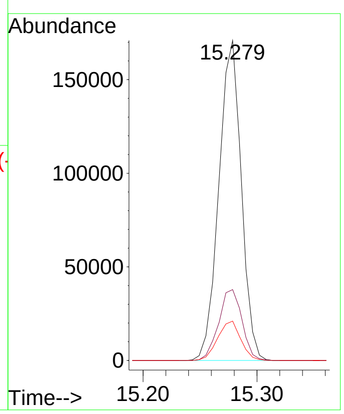




#60
Diethylphthalate
Concen: 51.761 ng
RT: 15.279 min Scan# 2075
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

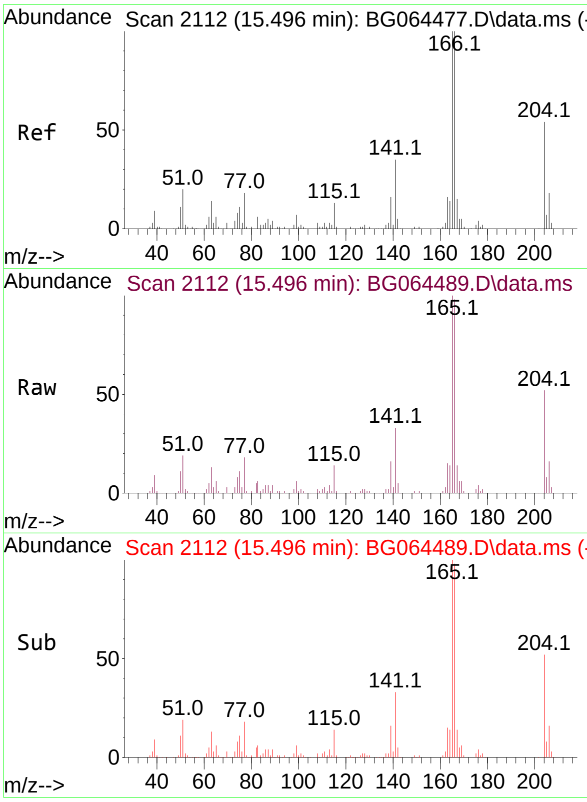
Tgt Ion:149 Resp: 233804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.1 | 17.4 | 26.0 |
| 150 | 12.3 | 9.1 | 13.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

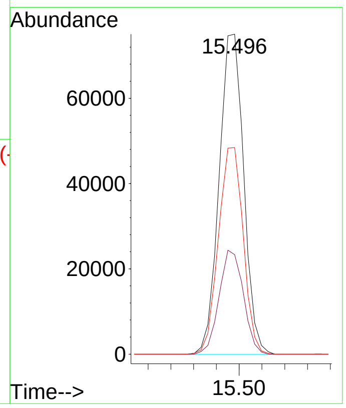
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

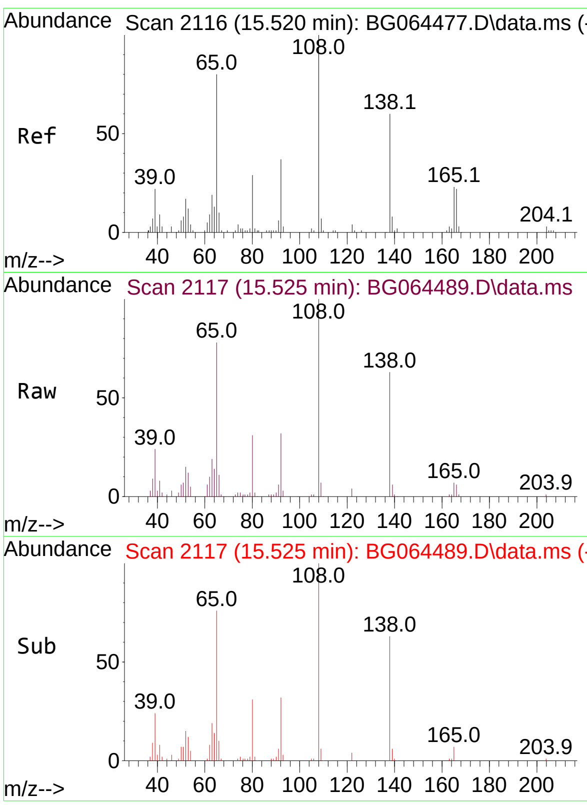



#61
4-Chlorophenyl-phenylether
Concen: 50.374 ng
RT: 15.496 min Scan# 21
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:204 Resp: 11239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.1 | 27.1 | 40.7 |
| 141 | 64.5 | 51.5 | 77.3 |

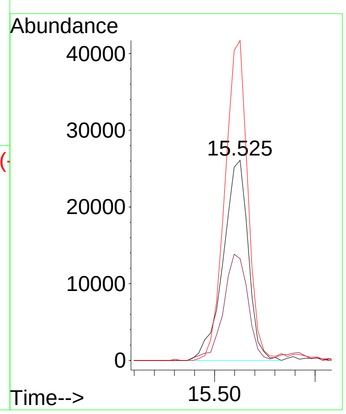


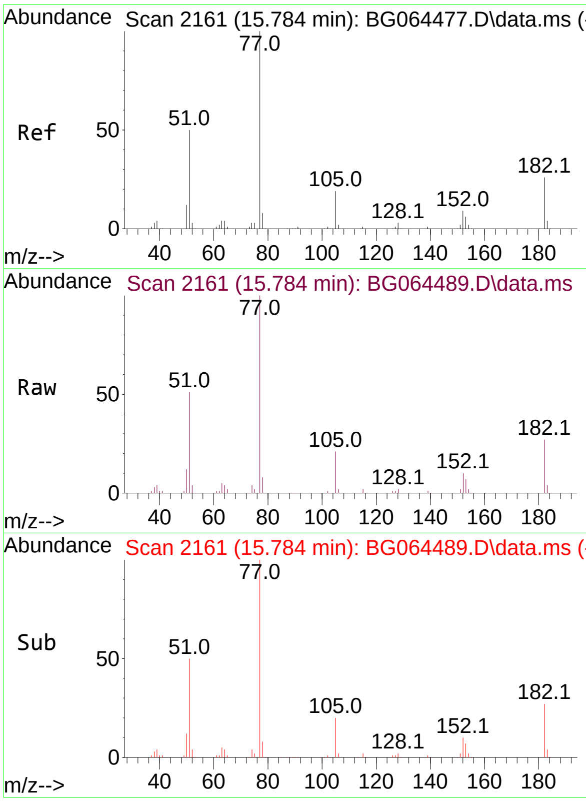




#62
4-Nitroaniline
Concen: 53.529 ng
RT: 15.525 min Scan# 2117
Delta R.T. 0.014 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:138 Resp: 45131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 50.8 | 42.3 | 82.3 |
| 108 | 159.9 | 147.7 | 187.7 |





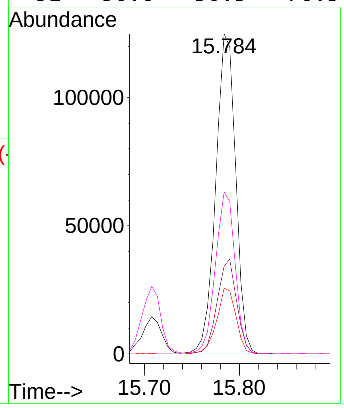

#63
Azobenzene
Concen: 52.357 ng
RT: 15.784 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

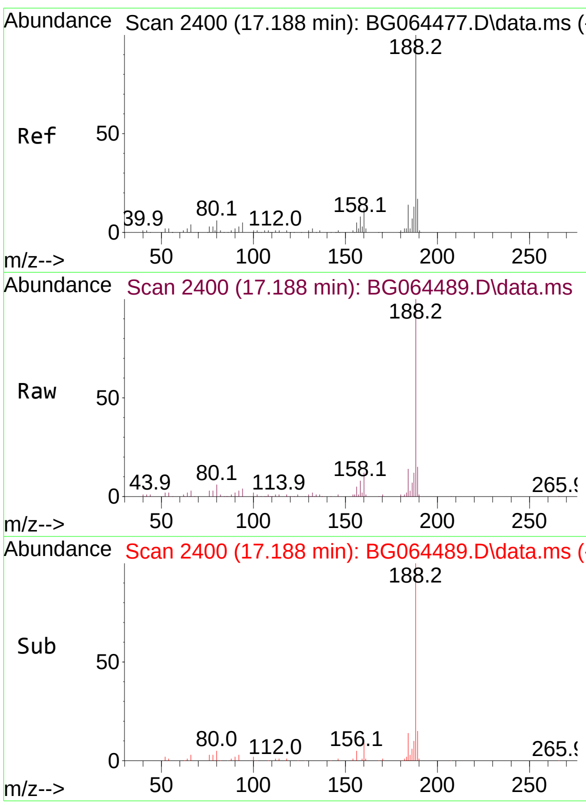
Tgt Ion: 77 Resp: 183158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 27.4 | 6.3 | 46.3 |
| 105 | 20.5 | 0.0 | 38.7 |
| 51 | 50.6 | 30.3 | 70.3 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

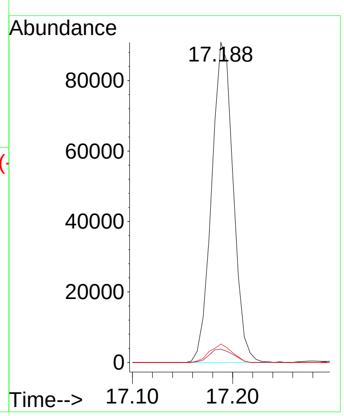



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.188 min Scan# 2400
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:188 Resp: 136086

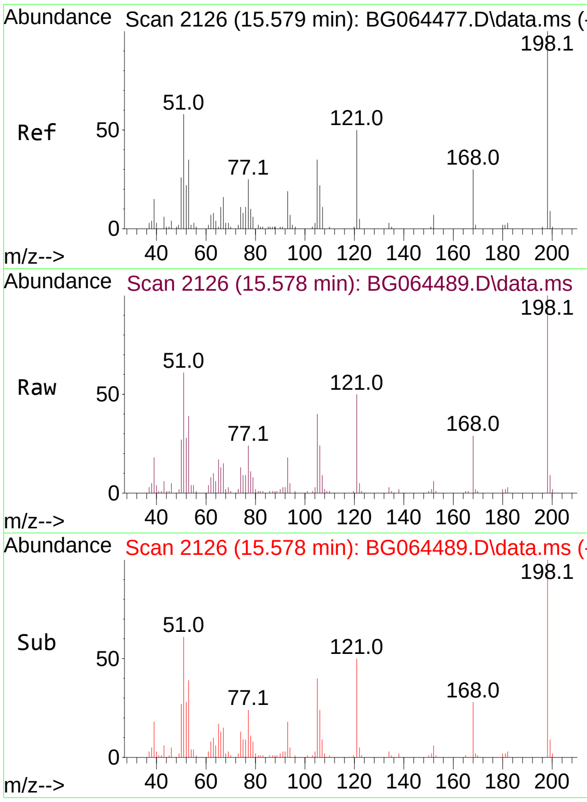
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 4.1 | 3.7 | 5.5 |
| 80 | 5.8 | 4.5 | 6.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

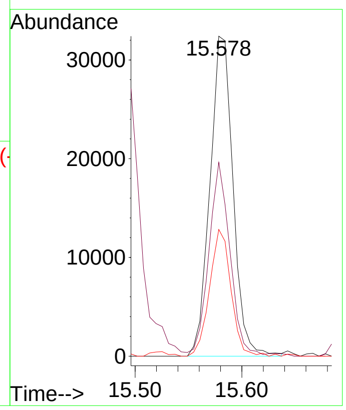
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

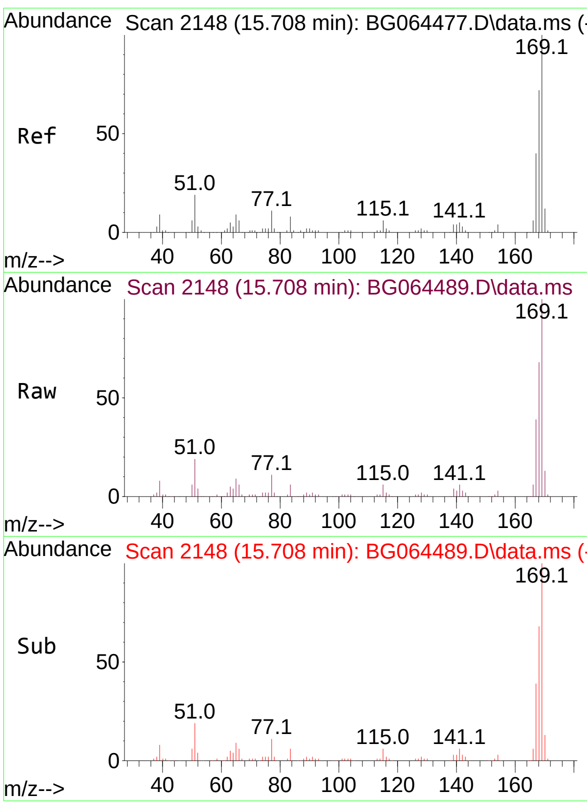



#65
4,6-Dinitro-2-methylphenol
Concen: 51.538 ng
RT: 15.578 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:198 Resp: 48834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 60.5 | 39.0 | 79.0 |
| 105 | 39.6 | 15.8 | 55.8 |

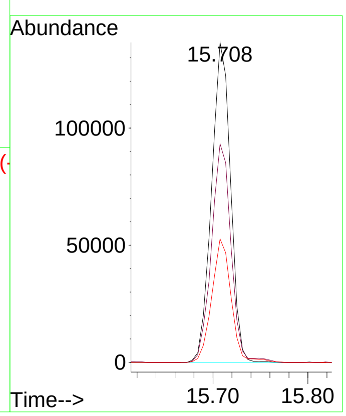



#66
n-Nitrosodiphenylamine
Concen: 52.341 ng
RT: 15.708 min Scan# 2148
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:169 Resp: 190210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 68.3 | 57.8 | 86.6 |
| 167 | 38.6 | 31.7 | 47.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
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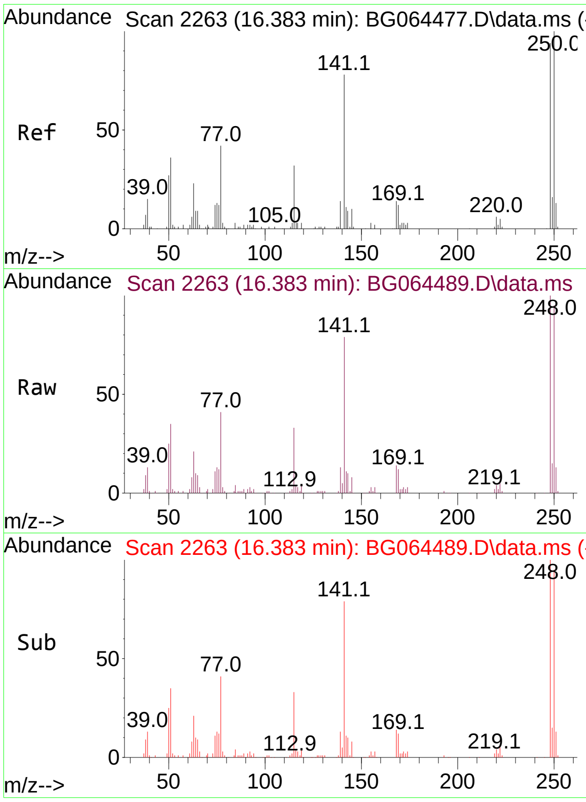
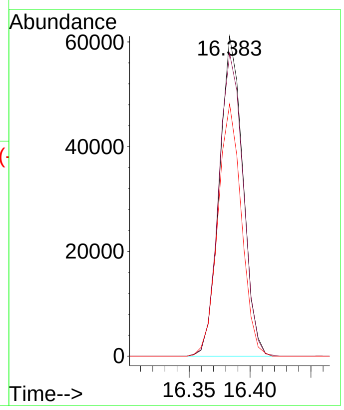
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

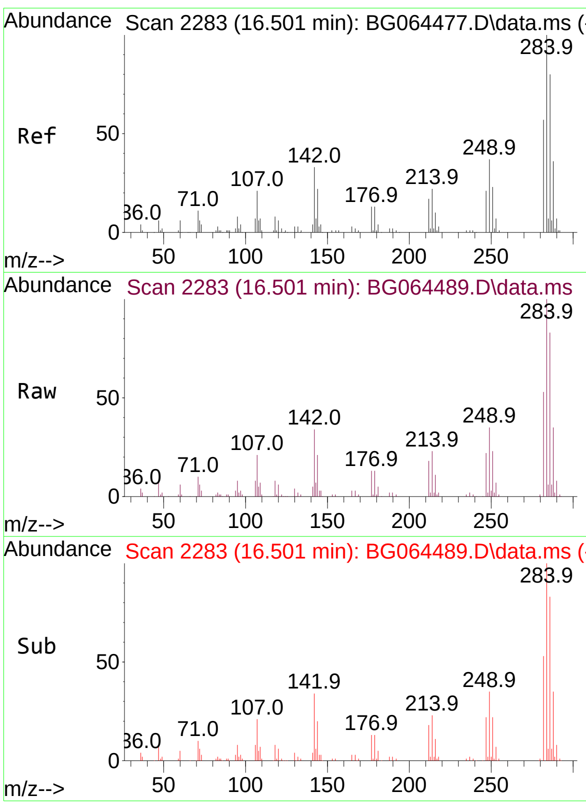



#67
4-Bromophenyl-phenylether
Concen: 51.049 ng
RT: 16.383 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:248 Resp: 8175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.6 | 85.3 | 127.9 |
| 141 | 78.8 | 66.2 | 99.2 |

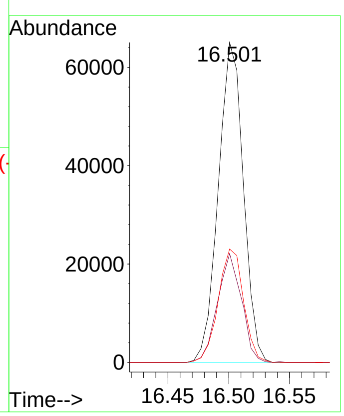



#68
Hexachlorobenzene
Concen: 50.789 ng
RT: 16.501 min Scan# 2283
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

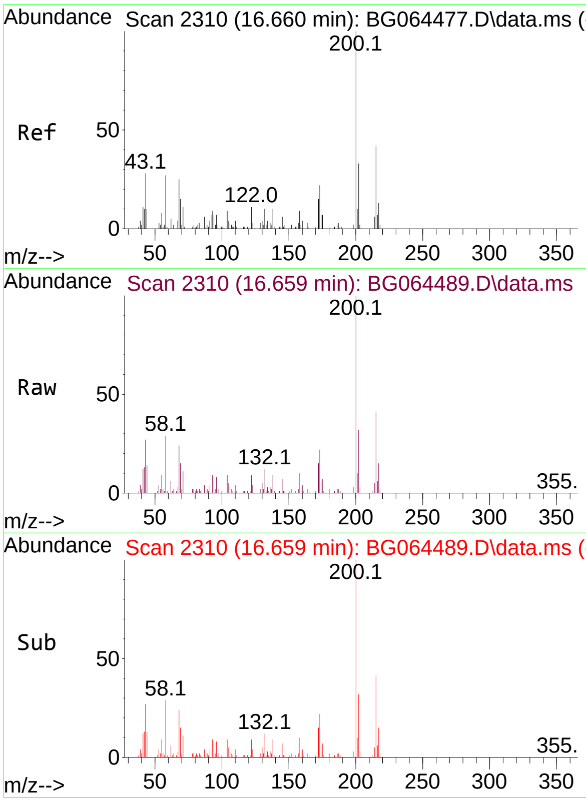
Tgt Ion:284 Resp: 93070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.0 | 26.2 | 39.2 |
| 249 | 35.4 | 29.4 | 44.0 |

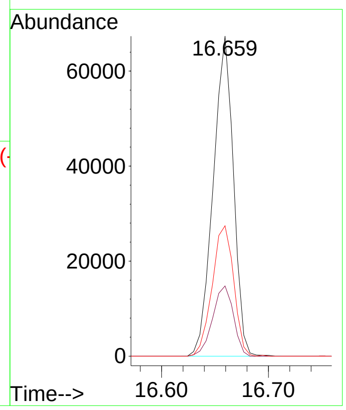


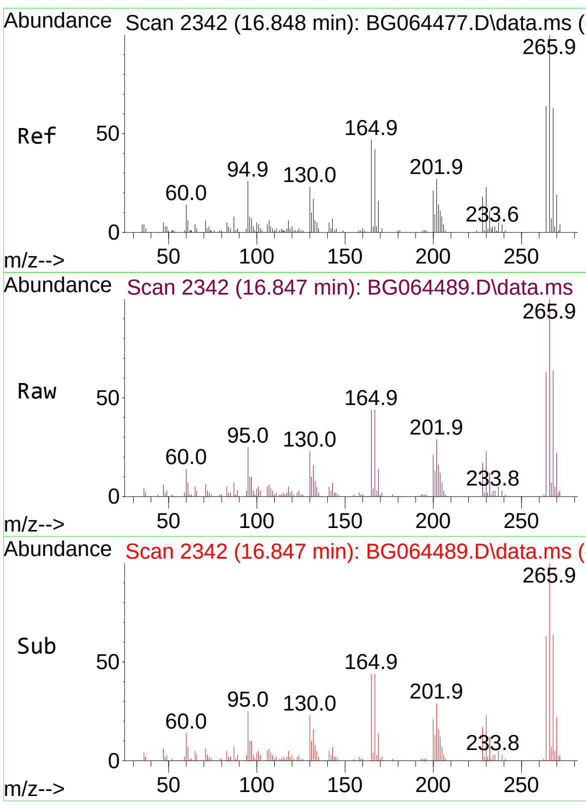
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

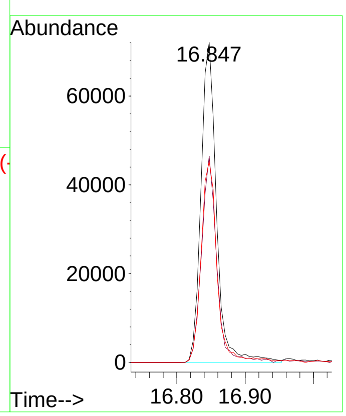



```
#69
Atrazine
Concen:   55.031 ng
RT:  16.659 min  Scan# 2
Delta R.T.  0.008 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:200 Resp:   8897
Ion  Ratio  Lower  Upper
200  100
173   21.9    2.5   42.5
215   40.7   21.5   61.5
```



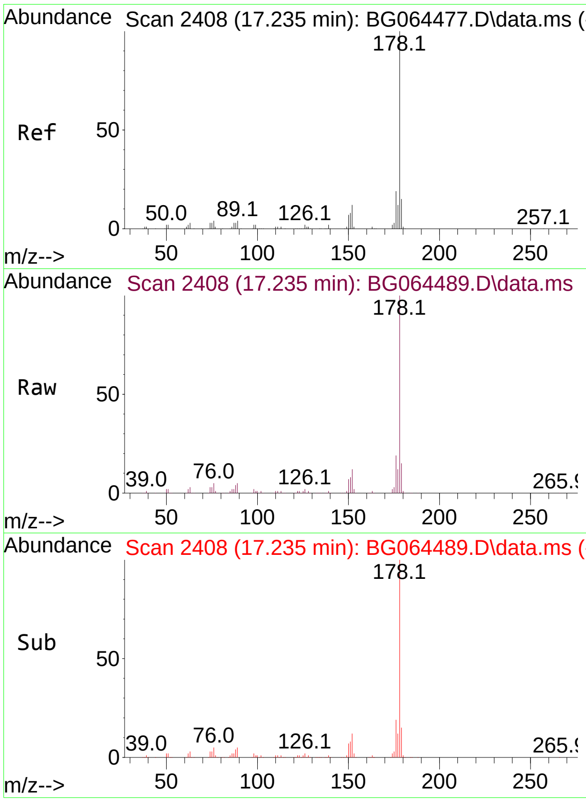

```
#70
Pentachlorophenol
Concen:  106.438 ng
RT:  16.847 min  Scan# 2342
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:266 Resp:  114041
Ion  Ratio  Lower  Upper
266  100
268   64.5   50.6   75.8
264   62.8   51.2   76.8
```



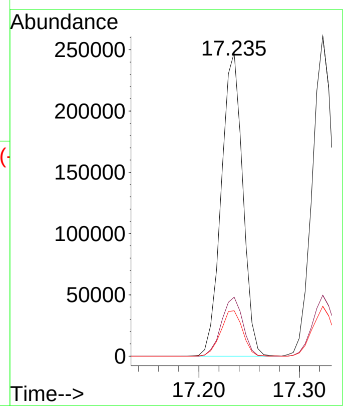
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

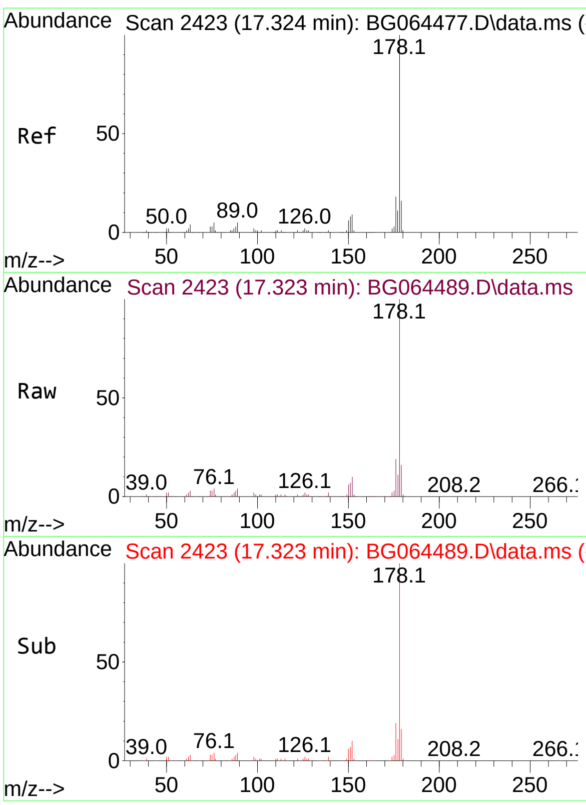
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

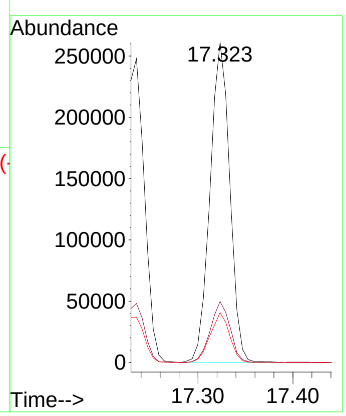


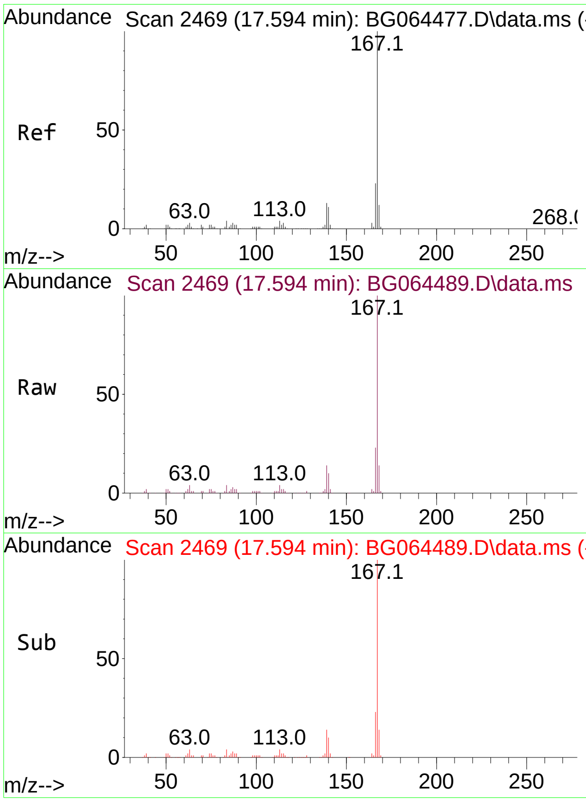

```
#71
Phenanthrene
Concen:   51.635 ng
RT:  17.235 min  Scan# 2
Delta R.T.  0.008 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:178 Resp:  36746
Ion  Ratio  Lower  Upper
178  100
176   19.4   15.2   22.8
179   14.9   11.8   17.6
```




```
#72
Anthracene
Concen:   52.985 ng
RT:  17.323 min  Scan# 2423
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:178 Resp:  378287
Ion  Ratio  Lower  Upper
178  100
176   19.0   14.6   21.8
179   15.6   12.5   18.7
```





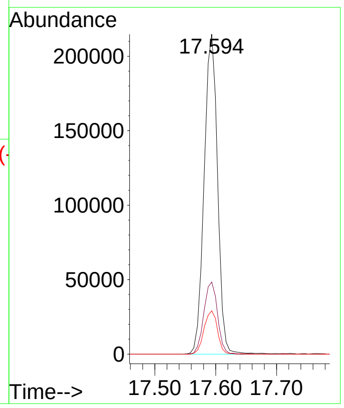

#73
Carbazole
Concen:   53.172 ng
RT:  17.594 min  Scan# 24
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

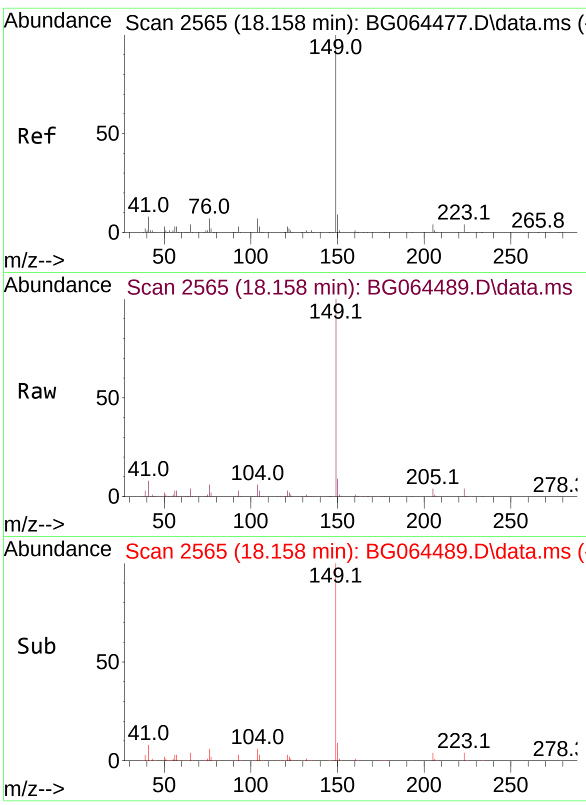
Tgt Ion:167 Resp:  32813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.5 | 18.6 | 27.8 |
| 139 | 13.5 | 10.2 | 15.4 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli   10/06/2025
Supervised By :Jagrut Upadhyay   10/06/2025

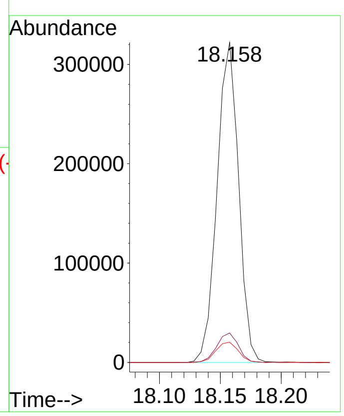



#74
Di-n-butylphthalate
Concen:   52.573 ng
RT:  18.158 min  Scan# 2565
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:149 Resp:  396056

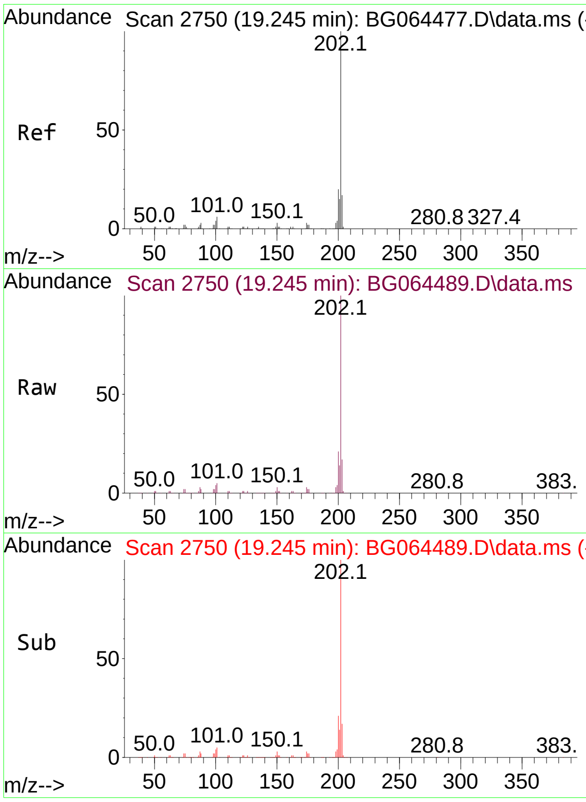
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.2 |
| 104 | 6.3 | 5.3 | 7.9 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

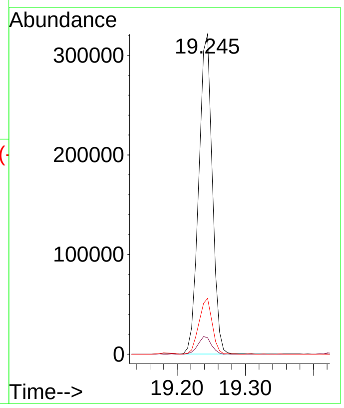
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

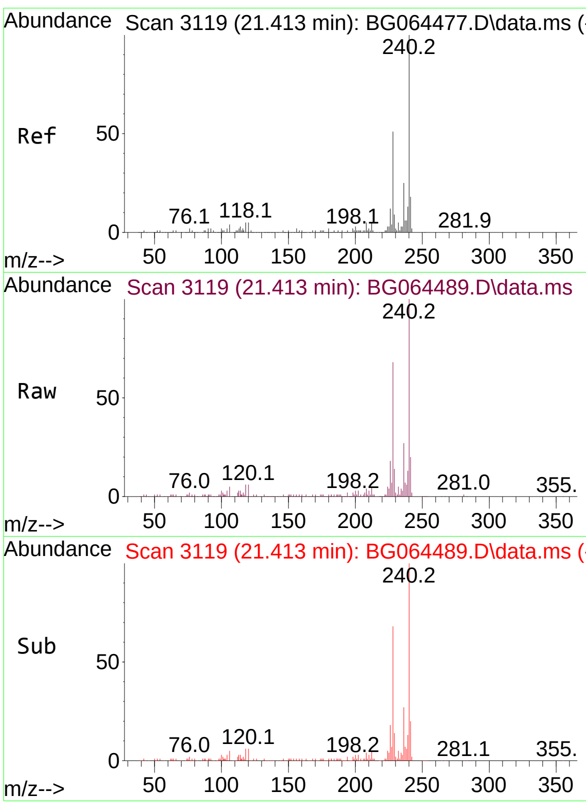



#75
Fluoranthene
Concen: 52.097 ng
RT: 19.245 min Scan# 2
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:202 Resp: 442925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.1 | 0.0 | 25.7 |
| 203 | 17.4 | 0.0 | 36.6 |

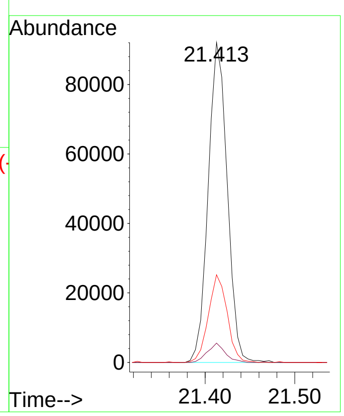


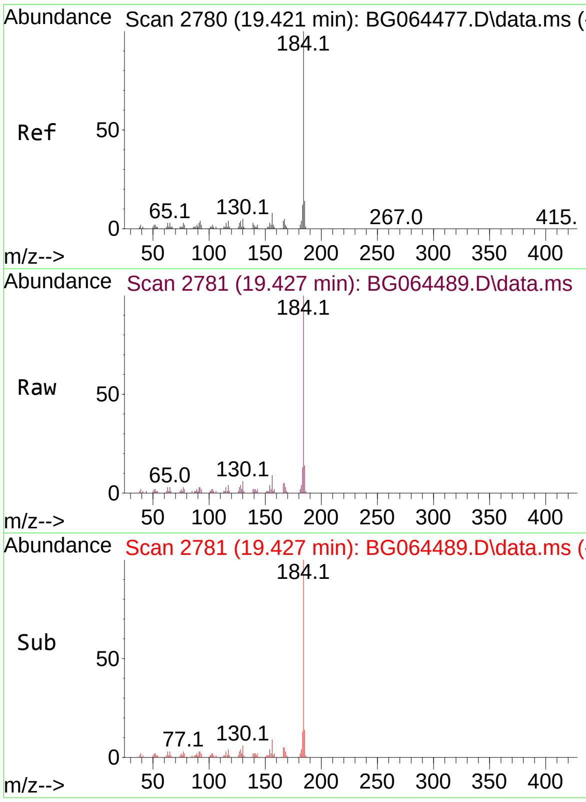




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.413 min Scan# 3119
Delta R.T. 0.003 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:240 Resp: 136322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 6.0 | 4.3 | 6.5 |
| 236 | 27.4 | 20.4 | 30.6 |






#77
Benzidine
Concen: 33.250 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

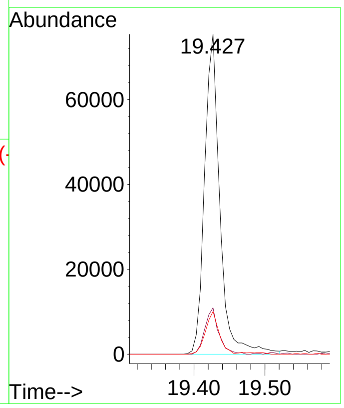
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

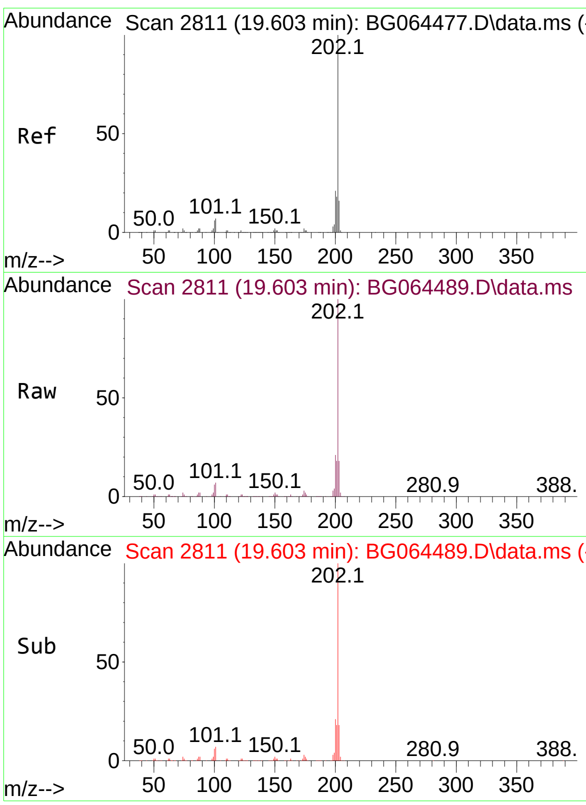
Tgt Ion:184 Resp: 11279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.5 | 10.9 | 16.3 |
| 183 | 13.3 | 9.8 | 14.6 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

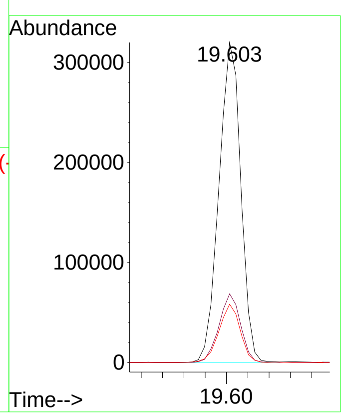



#78
Pyrene
Concen: 51.696 ng
RT: 19.603 min Scan# 2811
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:202 Resp: 457350

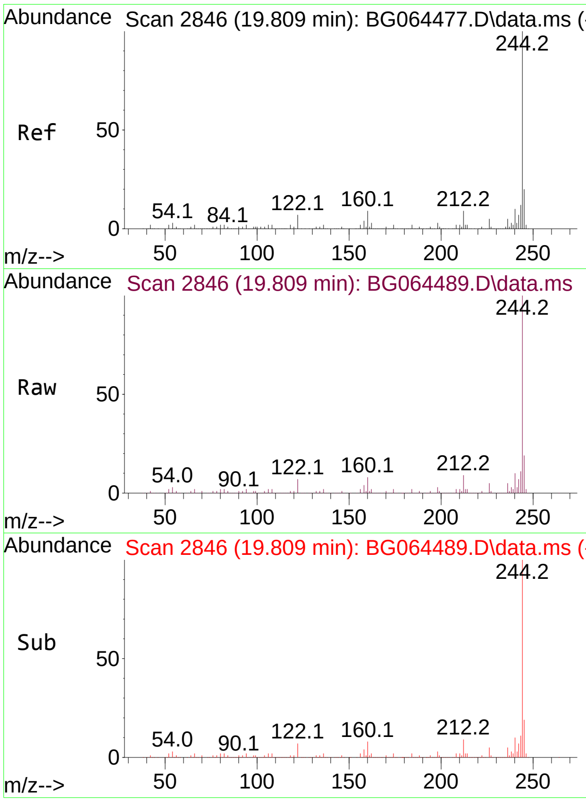
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.0 | 25.4 |
| 203 | 18.2 | 13.0 | 19.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations APPROVED**

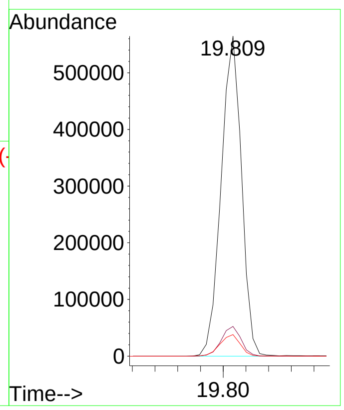
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

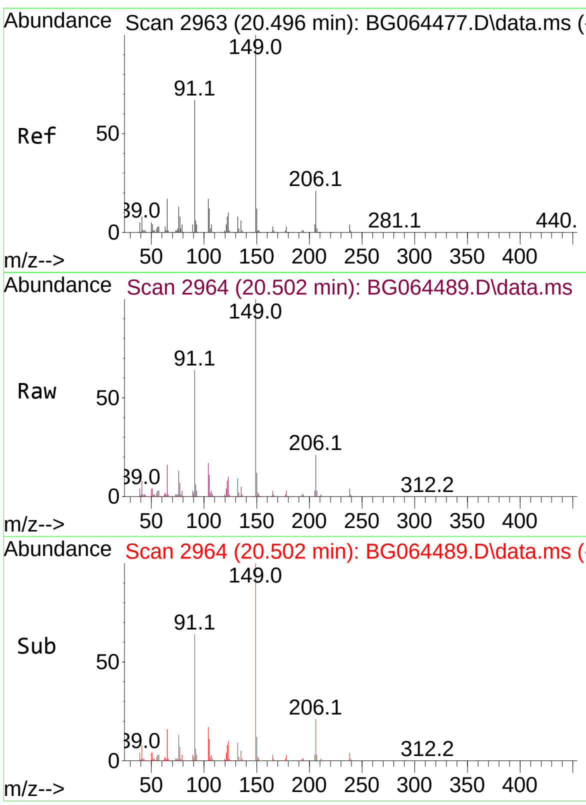



#79
Terphenyl-d14
Concen: 97.331 ng
RT: 19.809 min Scan# 28
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:244 Resp: 701104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.3 | 7.0 | 10.6 |
| 122 | 6.7 | 5.6 | 8.4 |

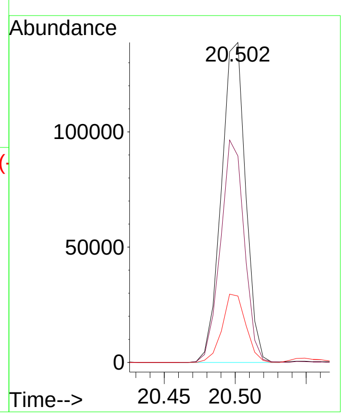


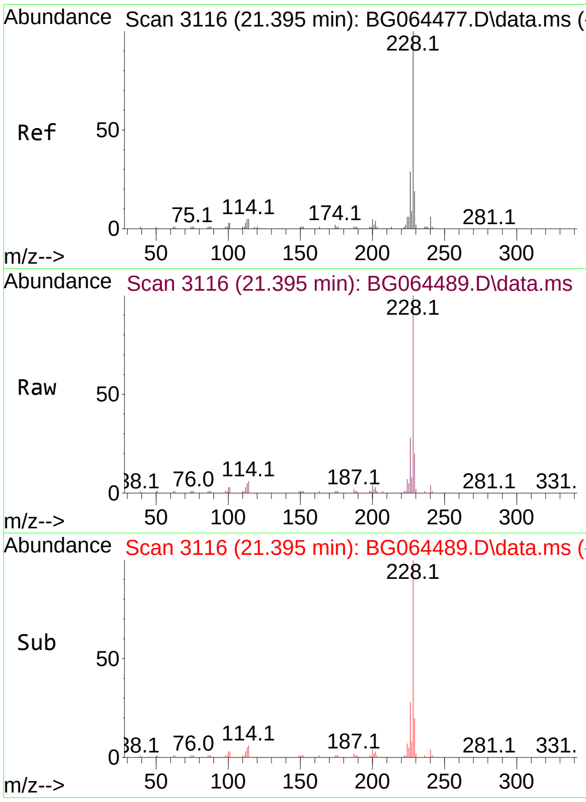




#80
Butylbenzylphthalate
Concen: 52.777 ng
RT: 20.502 min Scan# 2964
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:149 Resp: 165515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 64.5 | 53.7 | 80.5 |
| 206 | 20.8 | 16.6 | 24.8 |

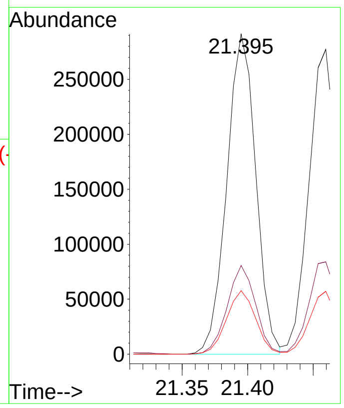


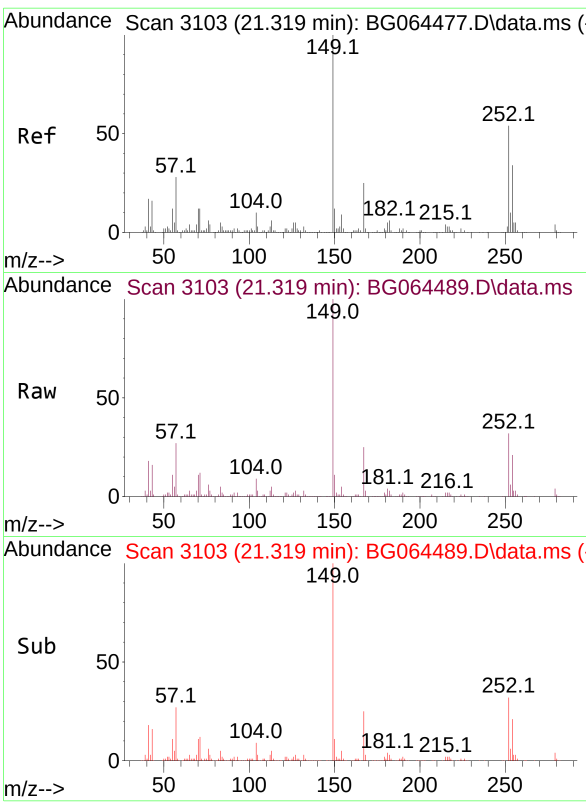



```
#81
Benzo(a)anthracene
Concen:    51.538 ng
RT:  21.395 min  Scan# 31
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:228 Resp:  44860
Ion  Ratio  Lower  Upper
228  100
226   27.7   22.8   34.2
229   19.8   15.2   22.8
```

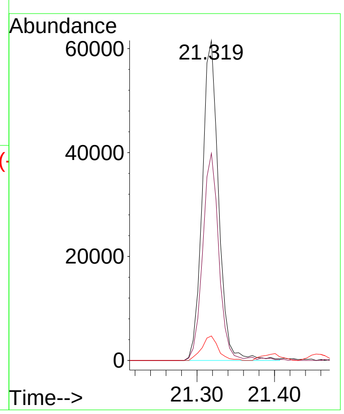
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

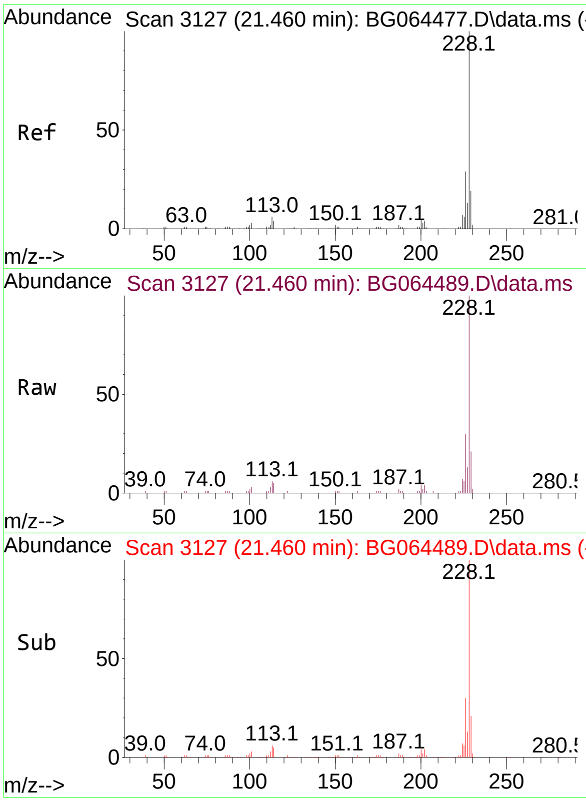
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




```
#82
3,3'-Dichlorobenzidine
Concen:    30.600 ng
RT:  21.319 min  Scan# 3103
Delta R.T.  0.002 min
Lab File:   BG064489.D
Acq:  3 Oct 2025  16:16

Tgt Ion:252 Resp:    90148
Ion  Ratio  Lower  Upper
252  100
254   64.7   50.5   75.7
126    7.6    7.1   10.7
```






#83
Chrysene
Concen: 51.298 ng
RT: 21.460 min Scan# 31
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

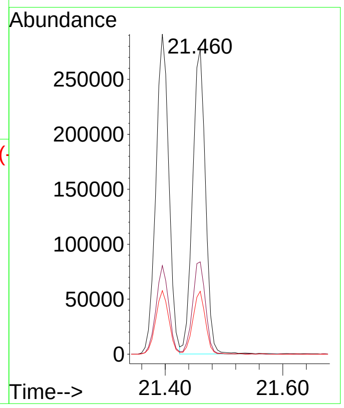
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

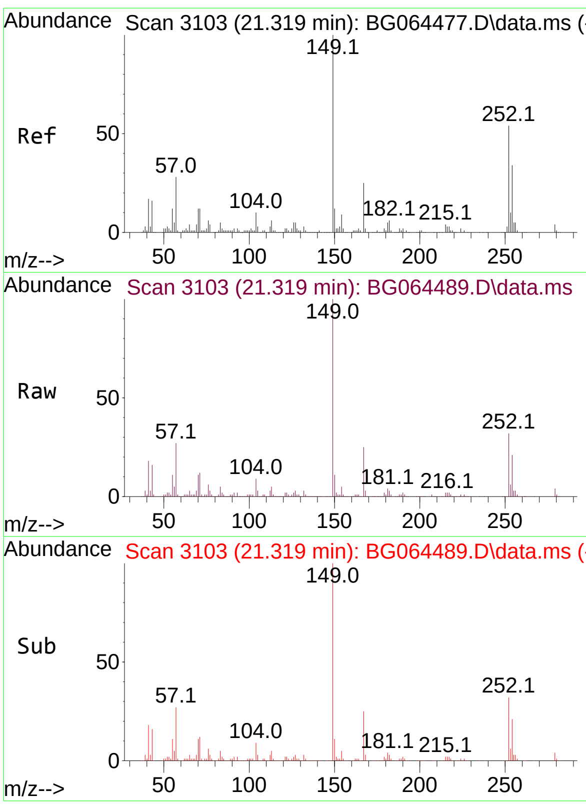
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Tgt Ion:228 Resp: 42345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 22.8 | 34.2 |
| 229 | 20.6 | 15.4 | 23.0 |

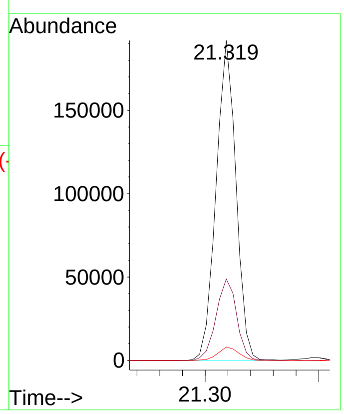


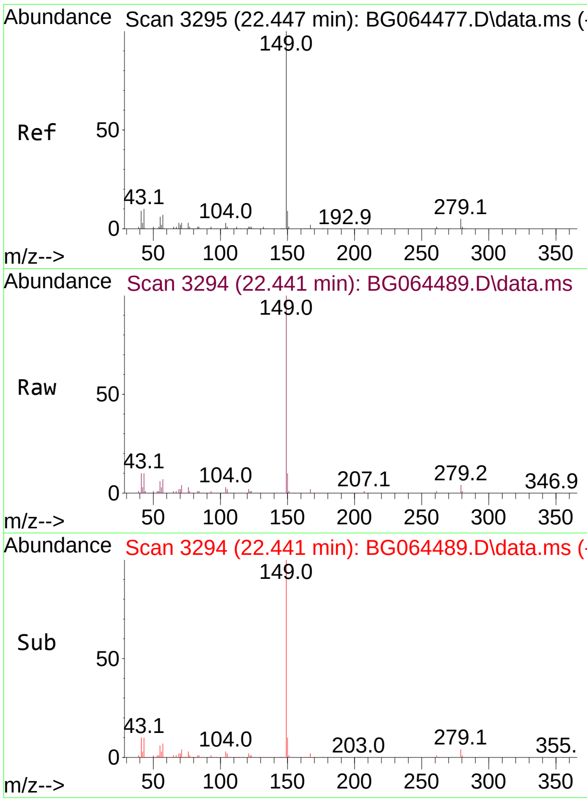




#84
Bis(2-ethylhexyl)phthalate
Concen: 52.679 ng
RT: 21.319 min Scan# 3103
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:149 Resp: 233098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.4 | 19.7 | 29.5 |
| 279 | 4.2 | 3.4 | 5.2 |






#85
Di-n-octyl phthalate
Concen: 52.033 ng
RT: 22.441 min Scan# 3:
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

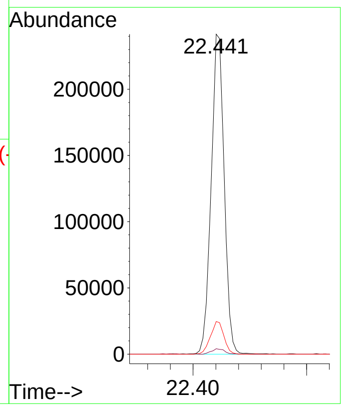
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

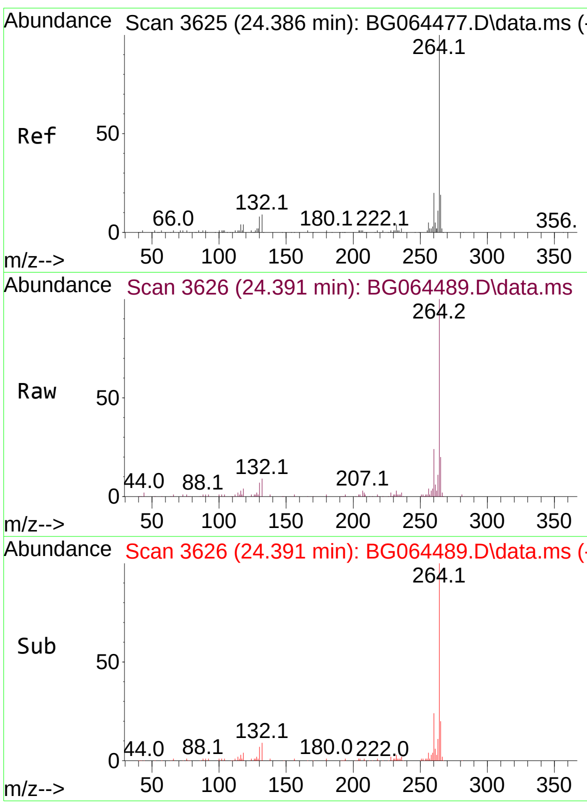
Tgt Ion:149 Resp: 386957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 10.4 | 7.9 | 11.9 |

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

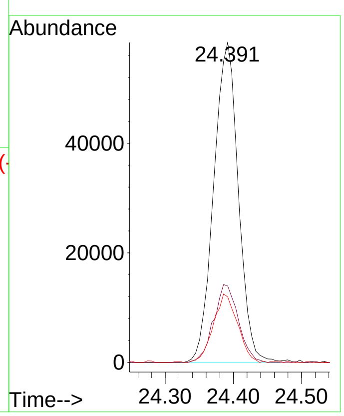



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.391 min Scan# 3626
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:264 Resp: 146226

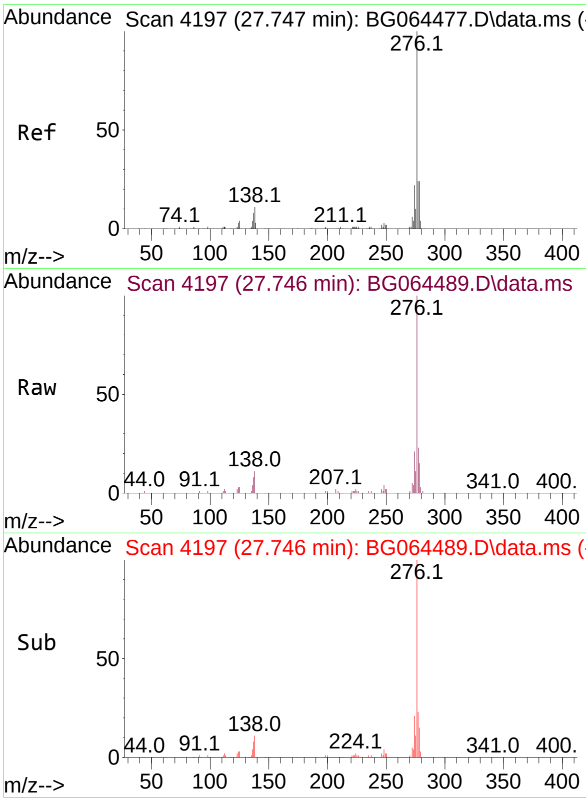
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 16.2 | 24.4 |
| 265 | 20.5 | 15.0 | 22.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**

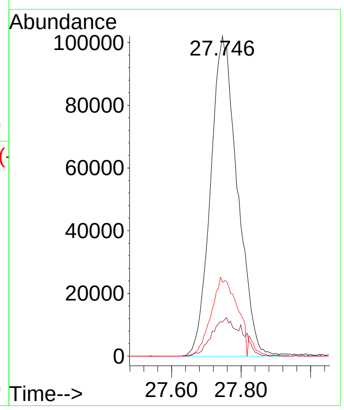
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

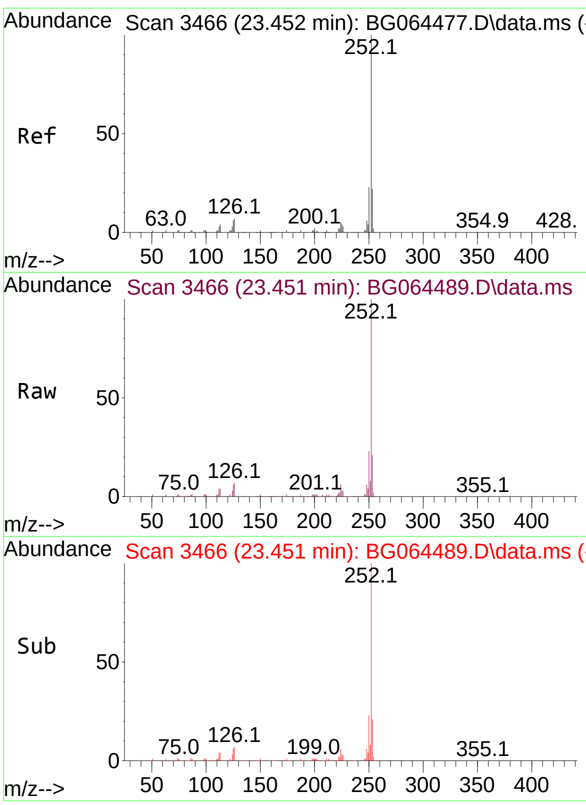



#87
Indeno(1,2,3-cd)pyrene
Concen: 53.861 ng
RT: 27.746 min Scan# 41
Delta R.T. 0.014 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:276 Resp: 548210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 13.3 | 10.8 | 16.2 |
| 277 | 23.6 | 20.3 | 30.5 |

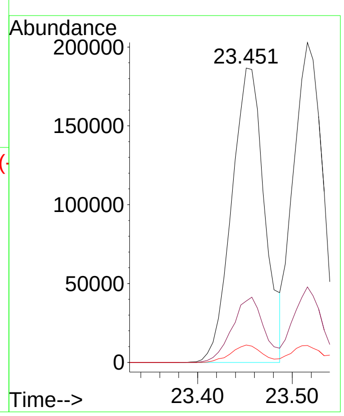



#88
Benzo(b)fluoranthene
Concen: 54.209 ng
RT: 23.451 min Scan# 3466
Delta R.T. 0.002 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:252 Resp: 450951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.8 | 17.5 | 26.3 |
| 125 | 5.9 | 4.5 | 6.7 |

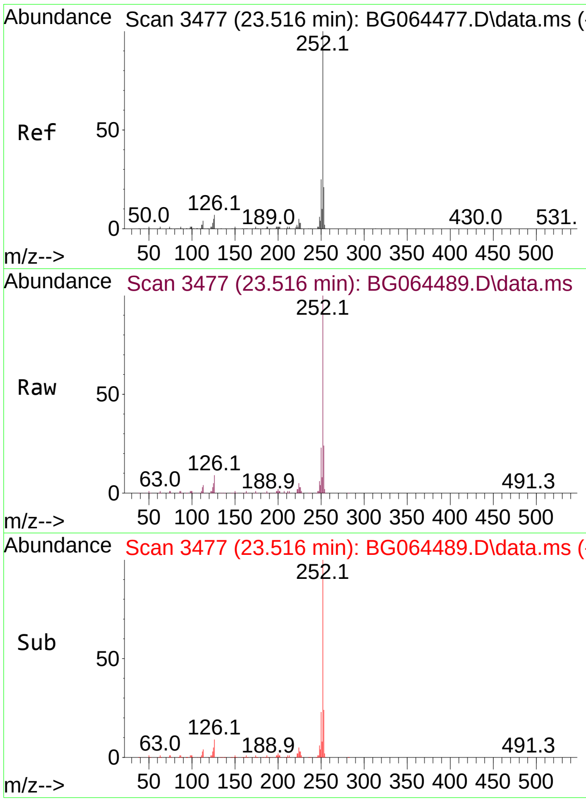


Sample Results: **BG064489.D**

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**

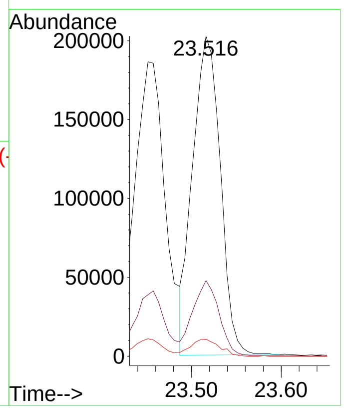
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

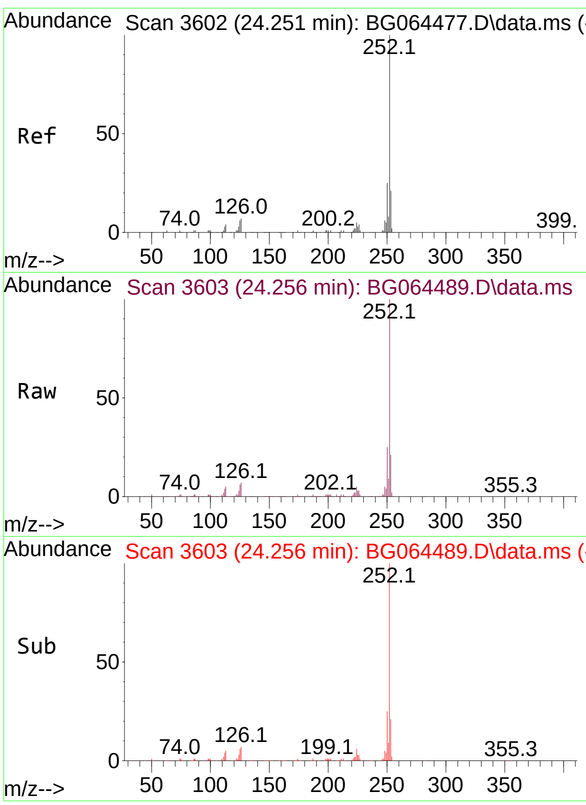



#89
Benzo(k)fluoranthene
Concen: 51.769 ng
RT: 23.516 min Scan# 34
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:252 Resp: 43374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.6 | 17.4 | 26.2 |
| 125 | 5.3 | 4.0 | 6.0 |

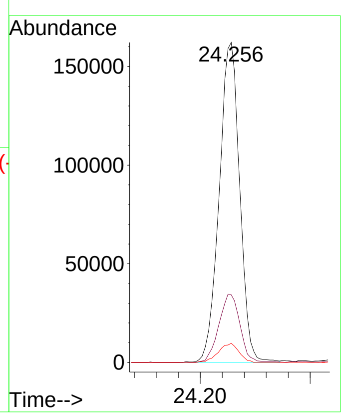


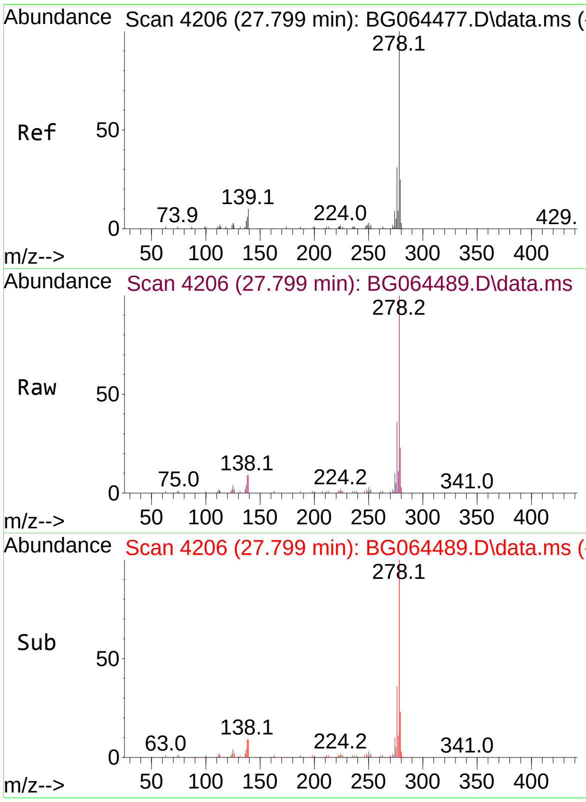




#90
Benzo(a)pyrene
Concen: 54.860 ng
RT: 24.256 min Scan# 3603
Delta R.T. 0.008 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:252 Resp: 420603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.1 | 17.1 | 25.7 |
| 125 | 6.0 | 4.6 | 6.8 |

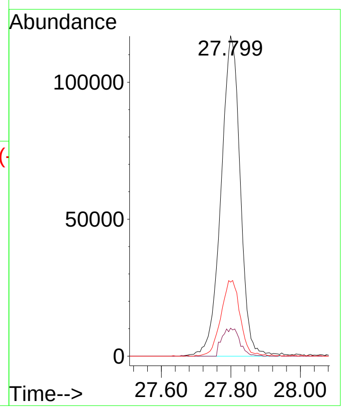




#91
Dibenzo(a,h)anthracene
Concen: 55.175 ng
RT: 27.799 min Scan# 4
Delta R.T. 0.020 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:278 Resp: 44911

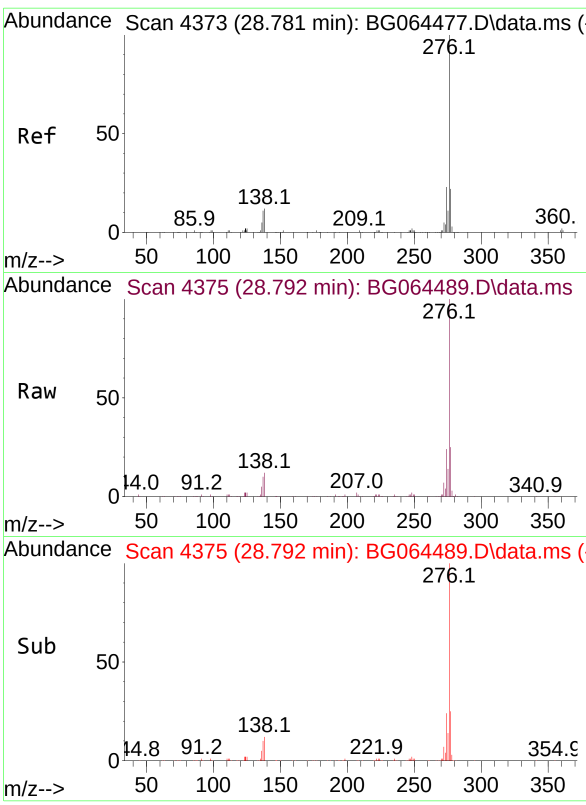
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 8.7 | 8.2 | 12.2 |
| 279 | 23.1 | 19.6 | 29.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BS

**Manual Integrations**
**APPROVED**

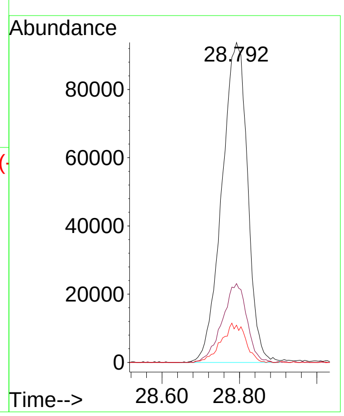
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025



#92
Benzo(g,h,i)perylene
Concen: 54.744 ng
RT: 28.792 min Scan# 4375
Delta R.T. 0.026 min
Lab File: BG064489.D
Acq: 3 Oct 2025 16:16

Tgt Ion:276 Resp: 433026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.6 | 17.8 | 26.6 |
| 138 | 11.6 | 9.4 | 14.0 |



Raw Data: **BG064490.D**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | G Environmental | | Date Collected: | | |
| Project: | ANN | | Date Received: | | |
| Client Sample ID: | PB169973BSD | | SDG No.: | Q3274 | |
| Lab Sample ID: | PB169973BSD | | Matrix: | Water | |
| Analytical Method: | 8270E | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 | Units: mL | Final Vol: | 1000 | uL |
| Soil Aliquot Vol: | | uL | Test: | SVOCMS Group1 | |
| Extraction Type : | | Decanted : N | Level : | LOW | |
| Injection Volume : | | GPC Factor : 1.0 | GPC Cleanup : | N | PH : |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064490.D | 1 | 10/03/25 08:35 | 10/03/25 16:57 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 26.1 | | 3.90 | 10.0 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 49.7 | | 0.81 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 48.3 | | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 54.9 | | 0.74 | 5.00 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 52.4 | | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 49.3 | | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 47.6 | | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 47.7 | | 0.75 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 49.3 | | 0.68 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 48.5 | | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 15.2 | | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 47.0 | | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 50.1 | | 1.10 | 10.0 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 44.5 | | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 140 | E | 3.60 | 10.0 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 53.2 | | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 47.4 | | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 50.6 | | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 48.6 | | 0.61 | 5.00 | ug/L |
| 208-96-8 | Acenaphthylene | 55.5 | | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 50.2 | | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 26.1 | | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 47.3 | | 0.55 | 5.00 | ug/L |
| 132-64-9 | Dibenzofuran | 49.0 | | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 53.2 | | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 49.5 | | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 48.0 | | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 50.3 | | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 52.3 | | 1.50 | 5.00 | ug/L |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | | | | |
|---|---|---|---|---|---|---|
| Client: | G Environmental | | | Date Collected: | | |
| Project: | ANN | | | Date Received: | | |
| Client Sample ID: | PB169973BSD | | | SDG No.: | Q3274 | |
| Lab Sample ID: | PB169973BSD | | | Matrix: | Water | |
| Analytical Method: | 8270E | | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 | uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group1 | |
| Extraction Type : | | Decanted : | N | Level : | LOW | |
| Injection Volume : | | GPC Factor : | 1.0 | GPC Cleanup : | N | PH : |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064490.D | 1 | 10/03/25 08:35 | 10/03/25 16:57 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 49.3 | | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 48.1 | | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 48.9 | | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 52.8 | | 1.00 | 5.00 | ug/L |
| 85-01-8 | Phenanthrene | 48.6 | | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 49.9 | | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 52.1 | | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 51.7 | | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 51.0 | | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 49.5 | | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 50.7 | | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 27.3 | | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 50.0 | | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 49.6 | | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 51.0 | | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 50.3 | | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 50.4 | | 0.49 | 5.00 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 51.7 | | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 53.3 | | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 51.2 | | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 52.4 | | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 52.7 | | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 53.7 | | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 40.6 | | 1.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 91.5 | | 30 (67) - 130 (132) | 91% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.3 | | 30 (52) - 130 (132) | 90% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 96.5 | | 30 (42) - 130 (152) | 97% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 15300 | 7.825 | | | |

Raw Data: **BG064490.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | ANN | Date Received: | |
| Client Sample ID: | PB169973BSD | SDG No.: | Q3274 |
| Lab Sample ID: | PB169973BSD | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BG064490.D | 1 | 10/03/25 08:35 | 10/03/25 16:57 | PB169973 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 1146-65-2 | Naphthalene-d8 | 68900 | 10.61 | | | |
| 15067-26-2 | Acenaphthene-d10 | 53600 | 14.453 | | | |
| 1517-22-2 | Phenanthrene-d10 | 139000 | 17.191 | | | |
| 1719-03-5 | Chrysene-d12 | 142000 | 21.415 | | | |
| 1520-96-3 | Perylene-d12 | 152000 | 24.388 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064490.D
Acq On : 3 Oct 2025 16:57
Operator : RC/JU
Sample : PB169973BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Quant Time: Oct 03 17:39:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.825 | 152 | 15312 | 20.000 ng | 0.00 |
| 21) Naphthalene-d8 | 10.610 | 136 | 68886 | 20.000 ng | # 0.00 |
| 39) Acenaphthene-d10 | 14.453 | 164 | 53563 | 20.000 ng | 0.00 |
| 64) Phenanthrene-d10 | 17.191 | 188 | 138632 | 20.000 ng | # 0.00 |
| 76) Chrysene-d12 | 21.415 | 240 | 141515 | 20.000 ng | 0.00 |
| 86) Perylene-d12 | 24.388 | 264 | 151583 | 20.000 ng | # 0.00 |
| **System Monitoring Compounds** | | | | | |
| 5) 2-Fluorophenol | 5.416 | 112 | 134466 | 162.522 ng | 0.01 |
| 7) Phenol-d6 | 7.003 | 99 | 172569 | 155.209 ng | 0.02 |
| 23) Nitrobenzene-d5 | 8.977 | 82 | 117218 | 91.496 ng | 0.01 |
| 42) 2,4,6-Tribromophenol | 15.939 | 330 | 140210 | 144.412 ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.072 | 172 | 328094 | 90.288 ng | 0.00 |
| 79) Terphenyl-d14 | 19.805 | 244 | 721842 | 96.533 ng | 0.00 |
| **Target Compounds** | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.319 | 88 | 13298 | 40.634 ng | # 92 |
| 3) Pyridine | 3.706 | 79 | 34946 | 39.733 ng | 94 |
| 4) n-Nitrosodimethylamine | 3.624 | 42 | 31964 | 50.132 ng | 87 |
| 6) Aniline | 7.149 | 93 | 48523 | 34.598 ng | 97 |
| 8) 2-Chlorophenol | 7.390 | 128 | 56075 | 55.194 ng | 98 |
| 9) Benzaldehyde | 6.961 | 77 | 25788 | 26.128 ng | 91 |
| 10) Phenol | 7.026 | 94 | 64826 | 55.269 ng | 98 |
| 11) bis(2-Chloroethyl)ether | 7.249 | 93 | 39465 | 49.685 ng | 95 |
| 12) 1,3-Dichlorobenzene | 7.713 | 146 | 55884 | 50.283 ng | 98 |
| 13) 1,4-Dichlorobenzene | 7.860 | 146 | 59496 | 53.339 ng | 91 |
| 14) 1,2-Dichlorobenzene | 8.172 | 146 | 55839 | 50.794 ng | 96 |
| 15) Benzyl Alcohol | 8.060 | 79 | 55796 | 54.492 ng | 90 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.348 | 45 | 61797 | 48.266 ng | 98 |
| 17) 2-Methylphenol | 8.272 | 107 | 46672 | 54.952 ng | 98 |
| 18) Hexachloroethane | 8.900 | 117 | 21715 | 49.321 ng | 92 |
| 19) n-Nitroso-di-n-propyla... | 8.624 | 70 | 38963 | 52.398 ng | 97 |
| 20) 3+4-Methylphenols | 8.595 | 107 | 65493 | 55.259 ng | 93 |
| 22) Acetophenone | 8.642 | 105 | 91544 | 54.885 ng | # 96 |
| 24) Nitrobenzene | 9.018 | 77 | 60821 | 47.607 ng | 96 |
| 25) Isophorone | 9.541 | 82 | 110698 | 47.697 ng | 98 |
| 26) 2-Nitrophenol | 9.729 | 139 | 30795 | 48.432 ng | 97 |
| 27) 2,4-Dimethylphenol | 9.793 | 122 | 55310 | 56.953 ng | 95 |
| 28) bis(2-Chloroethoxy)met... | 10.023 | 93 | 58363 | 49.333 ng | 97 |
| 29) 2,4-Dichlorophenol | 10.263 | 162 | 59120 | 52.643 ng | 96 |
| 30) 1,2,4-Trichlorobenzene | 10.475 | 180 | 61294 | 50.056 ng | 98 |
| 31) Naphthalene | 10.663 | 128 | 171886 | 48.456 ng | 99 |
| 32) Benzoic acid | 9.958 | 122 | 44961m | 60.300 ng | |
| 33) 4-Chloroaniline | 10.769 | 127 | 20695 | 15.203 ng | # 97 |
| 34) Hexachlorobutadiene | 10.951 | 225 | 49245 | 46.959 ng | 99 |
| 35) Caprolactam | 11.538 | 113 | 19269m | 50.120 ng | |
| 36) 4-Chloro-3-methylphenol | 11.903 | 107 | 70424 | 51.566 ng | 97 |
| 37) 2-Methylnaphthalene | 12.273 | 142 | 121185 | 44.505 ng | 98 |
| 38) 1-Methylnaphthalene | 12.490 | 142 | 126687 | 46.659 ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.643 | 216 | 92935 | 53.737 ng | 98 |
| 41) Hexachlorocyclopentadiene | 12.625 | 237 | 123269 | 136.260 ng | 94 |
| 43) 2,4,6-Trichlorophenol | 12.884 | 196 | 57388 | 51.908 ng | 99 |

Sample Results: **BG064490.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064490.D
Acq On : 3 Oct 2025 16:57
Operator : RC/JU
Sample : PB169973BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 17:39:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.954 | 196 | 60489 | 49.008 | ng | | 95 |
| 46) 1,1'-Biphenyl | 13.283 | 154 | 204884 | 53.183 | ng | | 99 |
| 47) 2-Chloronaphthalene | 13.325 | 162 | 136452 | 47.440 | ng | | 96 |
| 48) 2-Nitroaniline | 13.530 | 65 | 49637 | 50.563 | ng | | 96 |
| 49) Acenaphthylene | 14.171 | 152 | 236815 | 55.463 | ng | | 99 |
| 50) Dimethylphthalate | 13.912 | 163 | 203802 | 48.581 | ng | | 97 |
| 51) 2,6-Dinitrotoluene | 14.024 | 165 | 43905 | 50.241 | ng | | 95 |
| 52) Acenaphthene | 14.517 | 154 | 140204 | 47.264 | ng | | 95 |
| 53) 3-Nitroaniline | 14.353 | 138 | 21048 | 26.116 | ng | | 93 |
| 54) 2,4-Dinitrophenol | 14.564 | 184 | 60905 | 96.115 | ng | | 86 |
| 55) Dibenzofuran | 14.852 | 168 | 239756 | 48.950 | ng | | 99 |
| 56) 4-Nitrophenol | 14.676 | 139 | 70541 | 111.171 | ng | | 97 |
| 57) 2,4-Dinitrotoluene | 14.817 | 165 | 71035 | 53.174 | ng | | 99 |
| 58) Fluorene | 15.498 | 166 | 204659 | 50.261 | ng | | 98 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.081 | 232 | 68433 | 54.327 | ng | | 98 |
| 60) Diethylphthalate | 15.275 | 149 | 222549 | 49.452 | ng | # | 97 |
| 61) 4-Chlorophenyl-phenyle... | 15.493 | 204 | 106708 | 48.001 | ng | | 96 |
| 62) 4-Nitroaniline | 15.522 | 138 | 43915 | 52.280 | ng | | 89 |
| 63) Azobenzene | 15.786 | 77 | 173819 | 49.872 | ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 15.581 | 198 | 46256 | 47.921 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 15.710 | 169 | 182340 | 49.254 | ng | | 93 |
| 67) 4-Bromophenyl-phenylether | 16.386 | 248 | 78451 | 48.089 | ng | | 90 |
| 68) Hexachlorobenzene | 16.503 | 284 | 91352 | 48.936 | ng | | 98 |
| 69) Atrazine | 16.656 | 200 | 87001 | 52.822 | ng | | 95 |
| 70) Pentachlorophenol | 16.850 | 266 | 109925 | 100.712 | ng | | 100 |
| 71) Phenanthrene | 17.232 | 178 | 352360 | 48.603 | ng | | 97 |
| 72) Anthracene | 17.326 | 178 | 362889 | 49.895 | ng | | 98 |
| 73) Carbazole | 17.590 | 167 | 327423 | 52.082 | ng | | 99 |
| 74) Di-n-butylphthalate | 18.154 | 149 | 396998 | 51.730 | ng | | 100 |
| 75) Fluoranthene | 19.241 | 202 | 441298 | 50.952 | ng | | 99 |
| 77) Benzidine | 19.423 | 184 | 100027 | 28.405 | ng | | 96 |
| 78) Pyrene | 19.605 | 202 | 454934 | 49.536 | ng | | 98 |
| 80) Butylbenzylphthalate | 20.498 | 149 | 165196 | 50.742 | ng | | 99 |
| 81) Benzo(a)anthracene | 21.397 | 228 | 451659 | 49.985 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 21.321 | 252 | 83367 | 27.260 | ng | # | 96 |
| 83) Chrysene | 21.456 | 228 | 424681 | 49.559 | ng | | 96 |
| 84) Bis(2-ethylhexyl)phtha... | 21.321 | 149 | 234171 | 50.979 | ng | | 100 |
| 85) Di-n-octyl phthalate | 22.443 | 149 | 388583 | 50.334 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 27.743 | 276 | 540606 | 51.237 | ng | # | 97 |
| 88) Benzo(b)fluoranthene | 23.454 | 252 | 434847 | 50.425 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 23.513 | 252 | 449174 | 51.716 | ng | | 100 |
| 90) Benzo(a)pyrene | 24.253 | 252 | 423237 | 53.252 | ng | | 97 |
| 91) Dibenzo(a,h)anthracene | 27.796 | 278 | 442427 | 52.434 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 28.789 | 276 | 432535 | 52.749 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

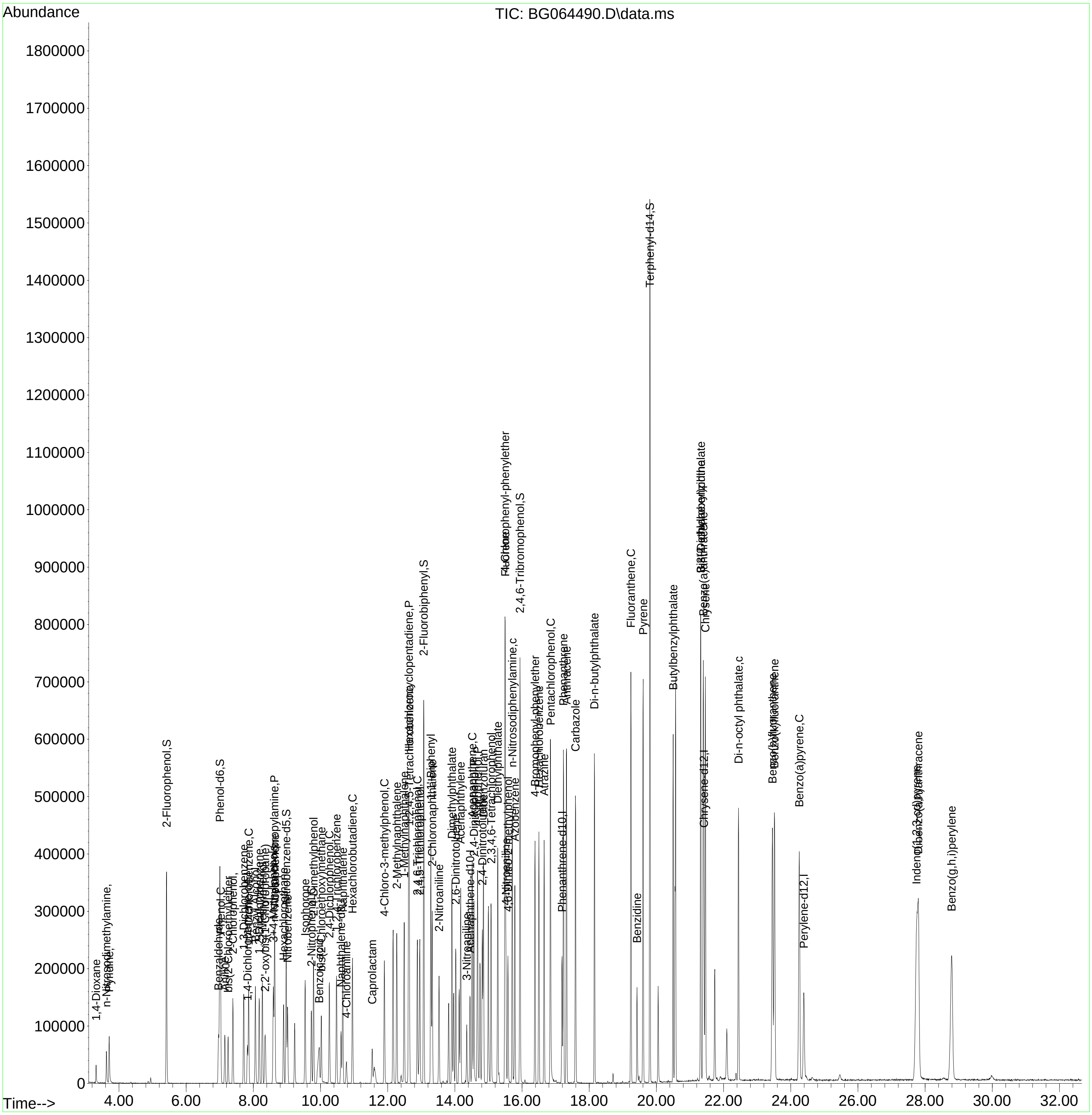
Sample Results: **BG064490.D**

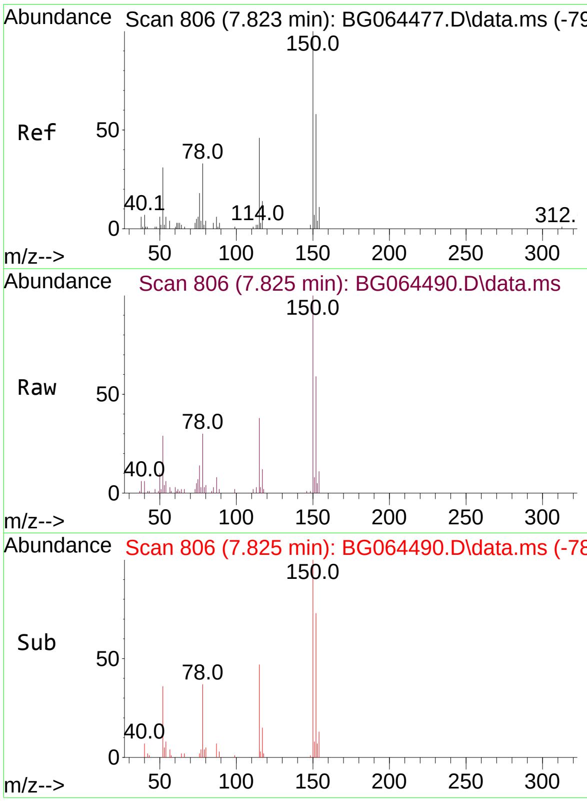
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100325\
Data File : BG064490.D
Acq On    :  3 Oct 2025  16:57
Operator  : RC/JU
Sample    : PB169973BSD
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Oct 03 17:39:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration
```

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025





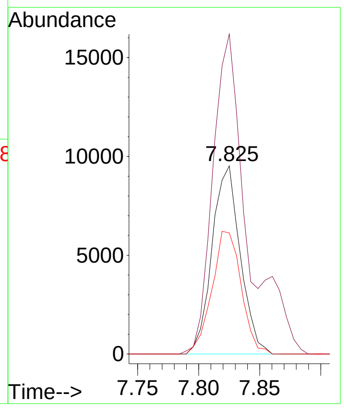

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.825 min Scan# 80
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

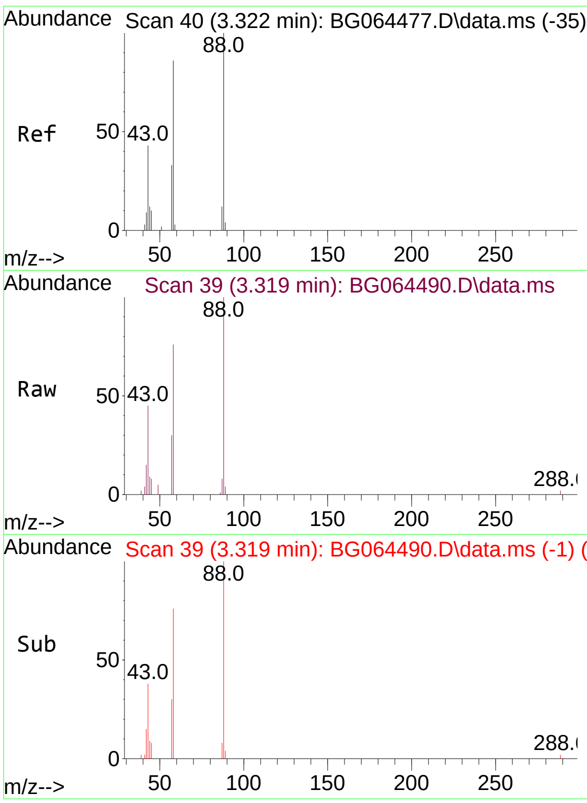
Tgt Ion:152 Resp: 15312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 170.0 | 138.6 | 207.8 |
| 115 | 64.3 | 63.4 | 95.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

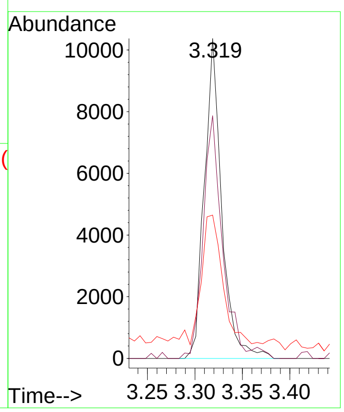


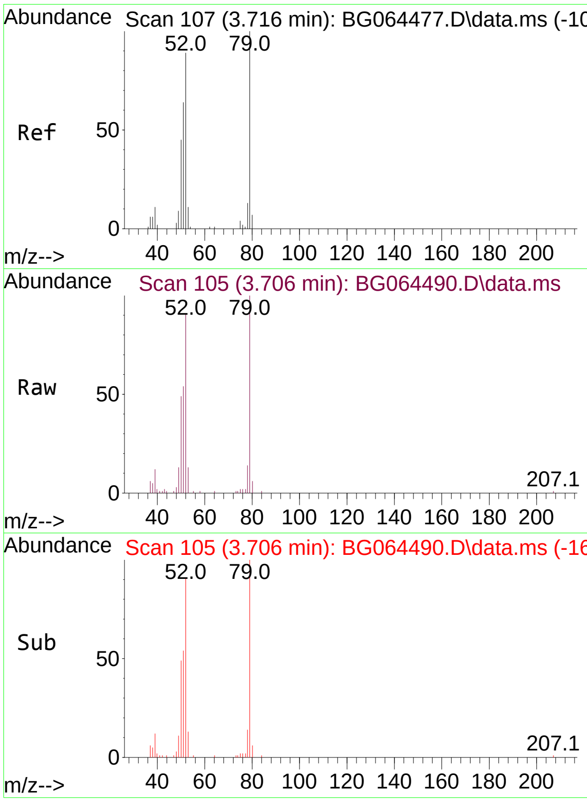




#2
1,4-Dioxane
Concen: 40.634 ng
RT: 3.319 min Scan# 39
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 88 Resp: 13298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 83.3 | 69.8 | 104.6 |
| 43 | 57.4 | 37.4 | 56.0# |






#3
Pyridine
Concen: 39.733 ng
RT: 3.706 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

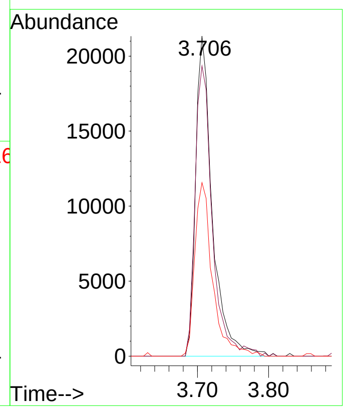
Tgt Ion: 79 Resp: 3494

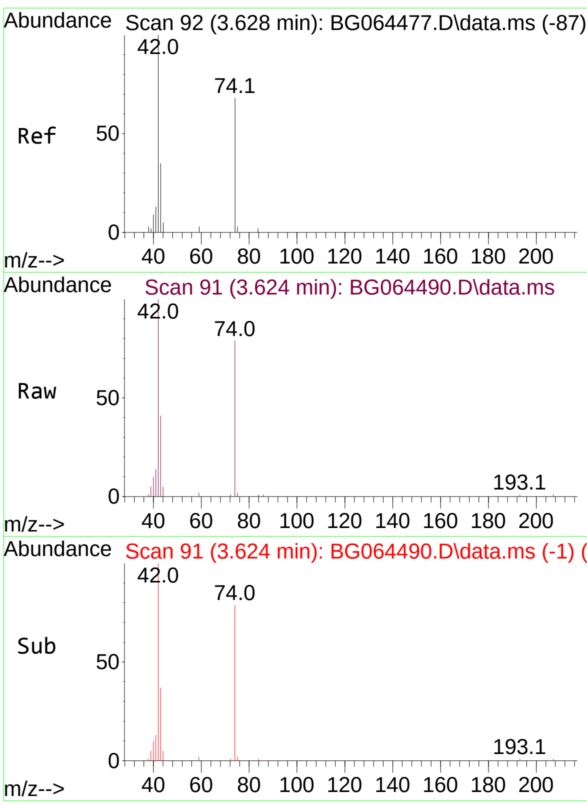
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 90.7 | 71.0 | 106.4 |
| 51 | 54.2 | 51.0 | 76.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

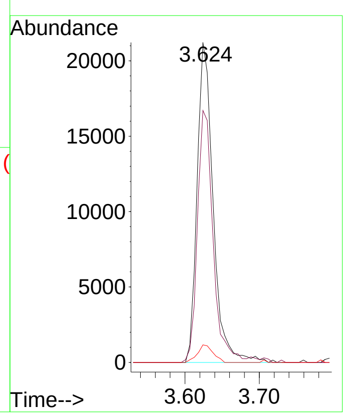


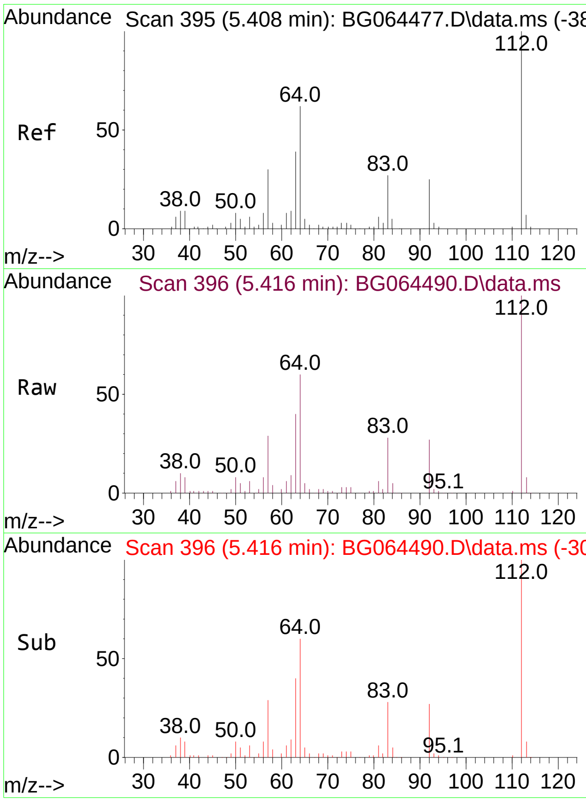




#4
n-Nitrosodimethylamine
Concen: 50.132 ng
RT: 3.624 min Scan# 91
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 42 Resp: 31964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 78.7 | 54.2 | 81.4 |
| 44 | 5.5 | 4.2 | 6.2 |






#5
2-Fluorophenol
Concen: 162.522 ng
RT: 5.416 min Scan# 39
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

Tgt Ion:112 Resp: 13446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.5 | 49.8 | 74.8 |
| 63 | 40.5 | 31.3 | 46.9 |

**Manual Integrations**
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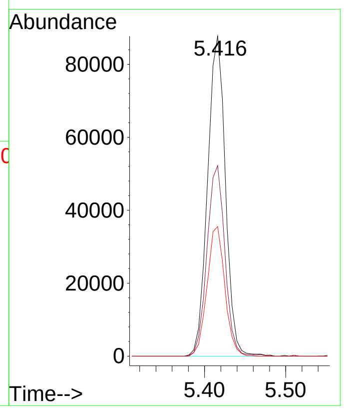
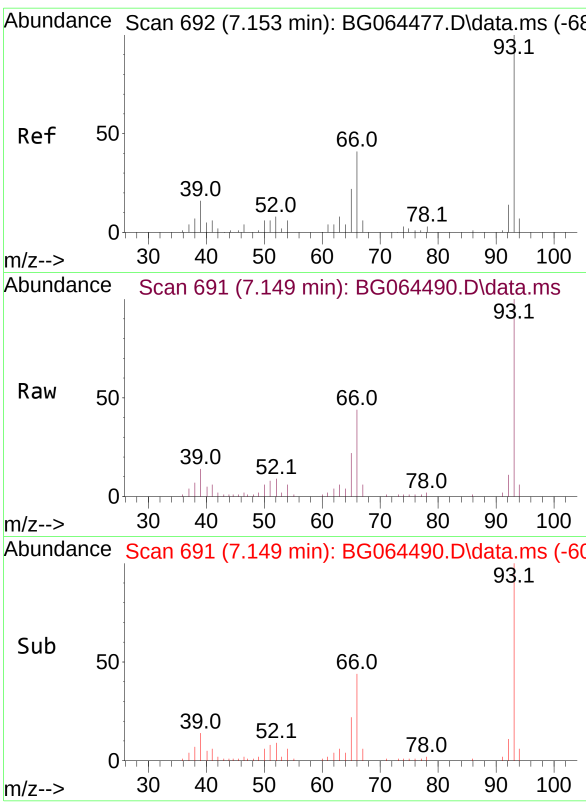
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

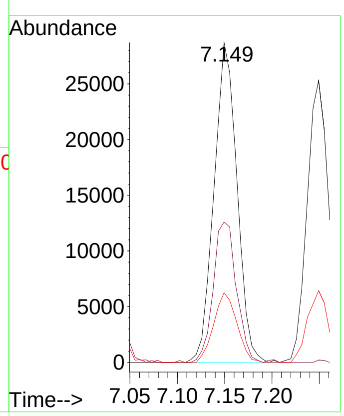



#6
Aniline
Concen: 34.598 ng
RT: 7.149 min Scan# 691
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 93 Resp: 48523

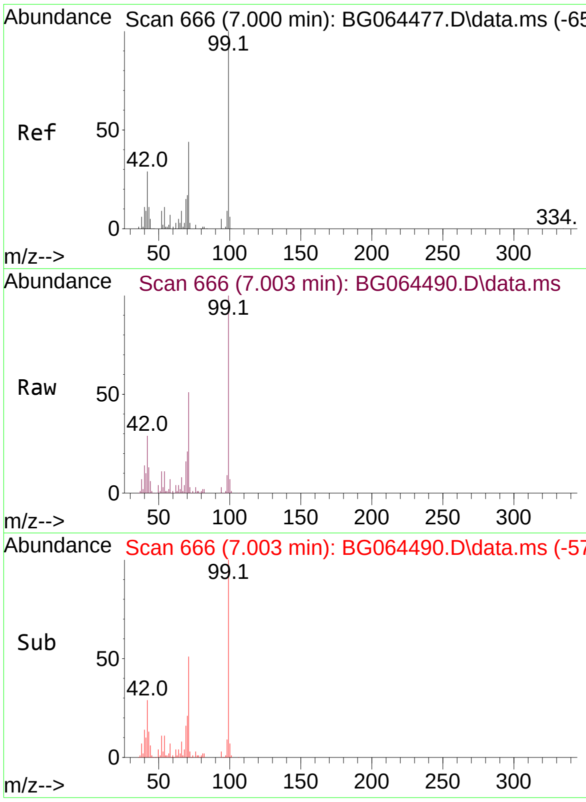
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 43.9 | 33.0 | 49.4 |
| 65 | 21.8 | 17.5 | 26.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

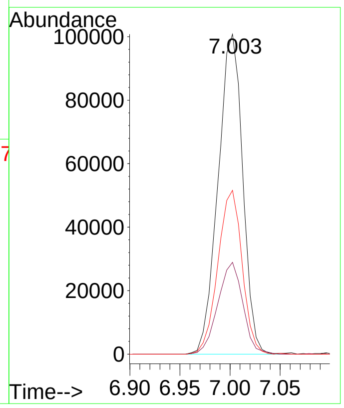
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

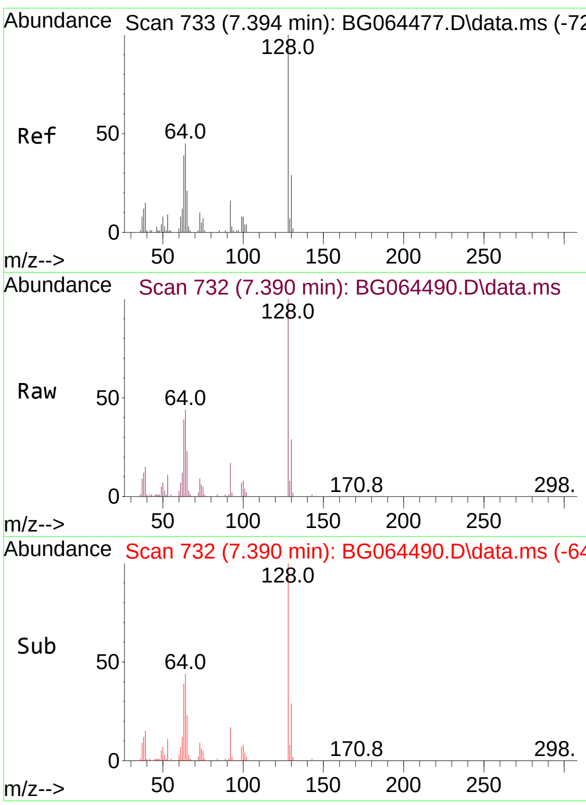



#7
Phenol-d6
Concen: 155.209 ng
RT: 7.003 min Scan# 66
Delta R.T. 0.016 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 99 Resp: 172569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 28.7 | 22.9 | 34.3 |
| 71 | 51.2 | 35.4 | 53.2 |

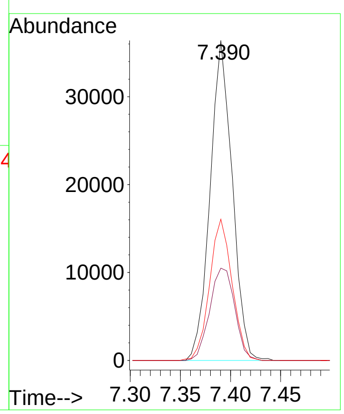



#8
2-Chlorophenol
Concen: 55.194 ng
RT: 7.390 min Scan# 732
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:128 Resp: 56075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 28.8 | 9.2 | 49.2 |
| 64 | 44.1 | 25.5 | 65.5 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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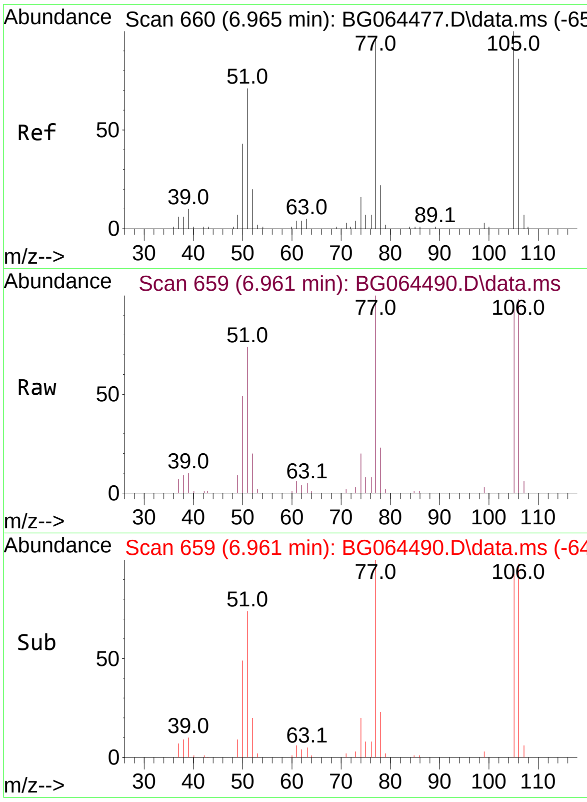
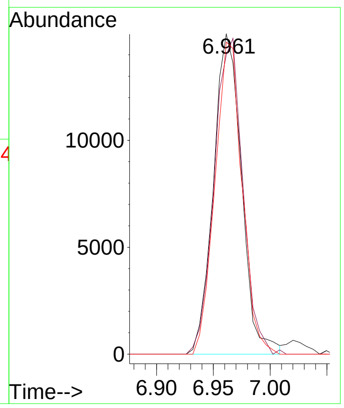
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

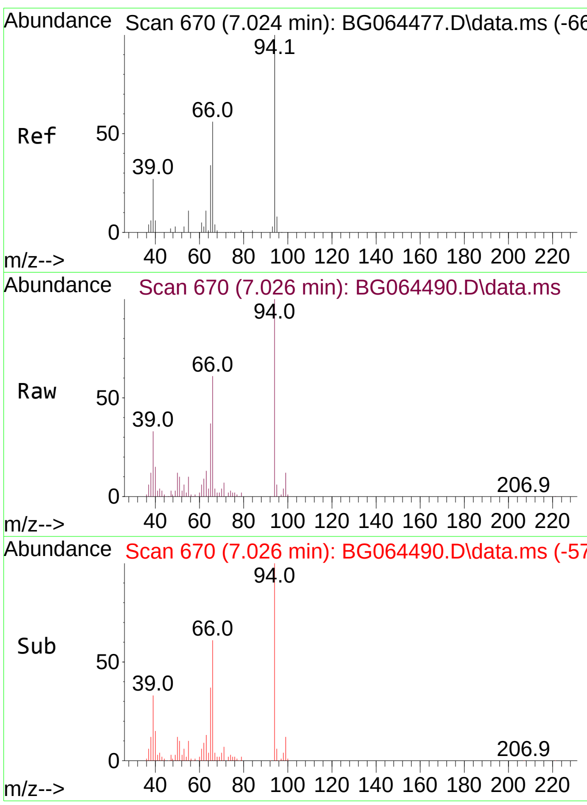



#9
Benzaldehyde
Concen: 26.128 ng
RT: 6.961 min Scan# 65
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 77 Resp: 25788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 93.5 | 83.7 | 123.7 |
| 106 | 97.5 | 69.4 | 109.4 |

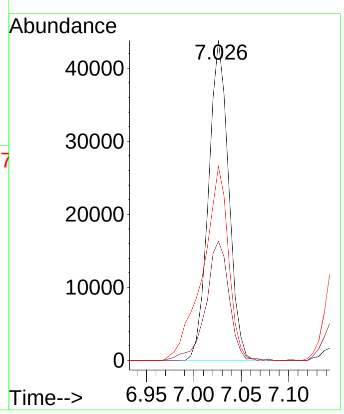



#10
Phenol
Concen: 55.269 ng
RT: 7.026 min Scan# 670
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 94 Resp: 64826

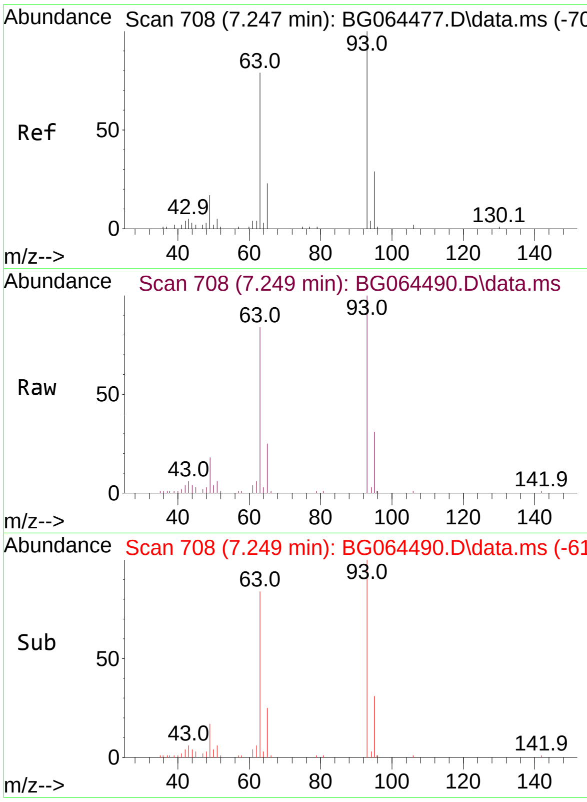
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 37.2 | 14.8 | 54.8 |
| 66 | 60.6 | 41.4 | 81.4 |



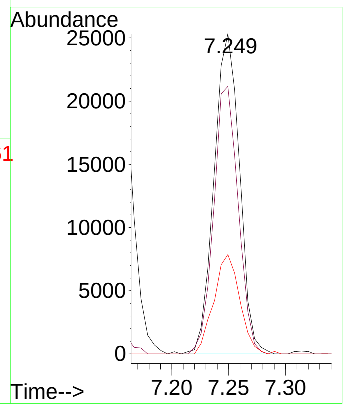
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

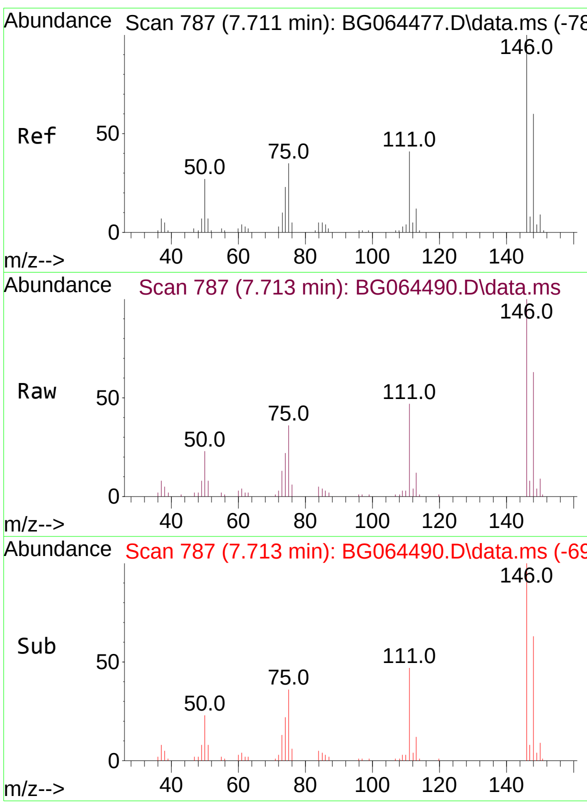
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

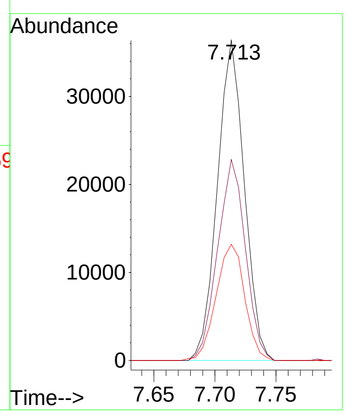



```
#11
bis(2-Chloroethyl)ether
Concen:    49.685 ng
RT:    7.249 min   Scan# 70
Delta R.T.   0.005 min
Lab File:    BG064490.D
Acq:  3 Oct 2025   16:57

Tgt Ion: 93 Resp:    39465
Ion   Ratio   Lower   Upper
 93   100
 63    83.6    59.5    99.5
 95    31.0     8.8    48.8
```




```
#12
1,3-Dichlorobenzene
Concen:    50.283 ng
RT:    7.713 min   Scan# 787
Delta R.T.   0.005 min
Lab File:    BG064490.D
Acq:  3 Oct 2025   16:57

Tgt Ion:146 Resp:    55884
Ion   Ratio   Lower   Upper
146   100
148    62.7    48.4    72.6
 75    36.3    28.3    42.5
```



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

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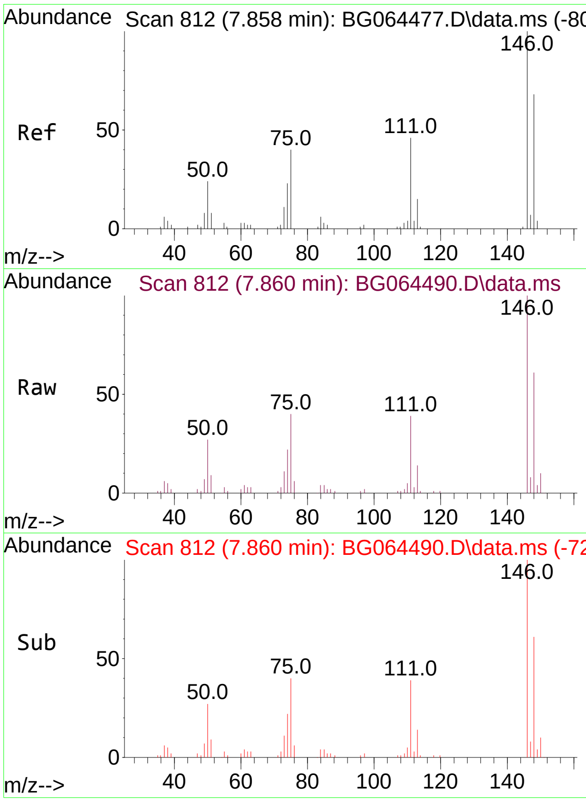
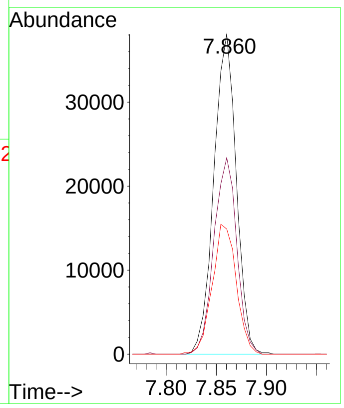
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

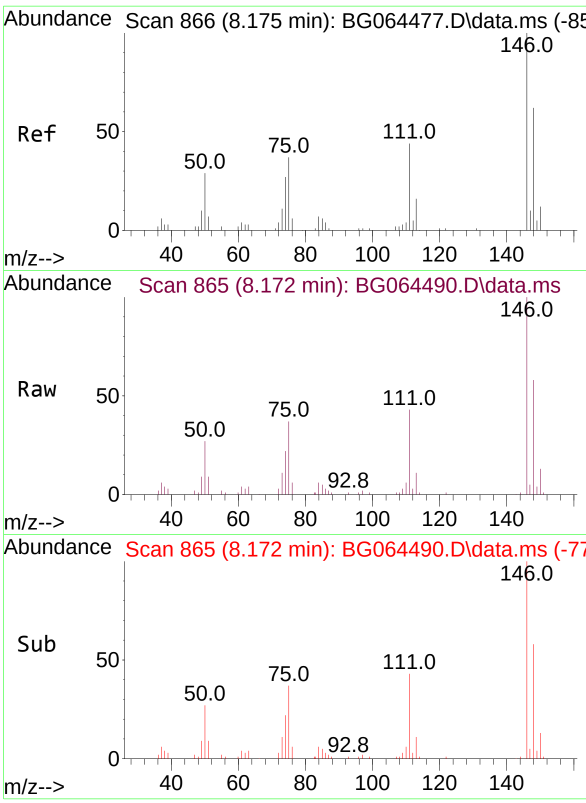



#13
1,4-Dichlorobenzene
Concen: 53.339 ng
RT: 7.860 min Scan# 81
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:146 Resp: 5949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 61.4 | 54.4 | 81.6 |
| 111 | 39.1 | 36.5 | 54.7 |

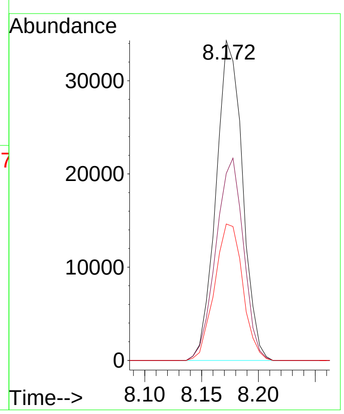



#14
1,2-Dichlorobenzene
Concen: 50.794 ng
RT: 8.172 min Scan# 865
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:146 Resp: 55839

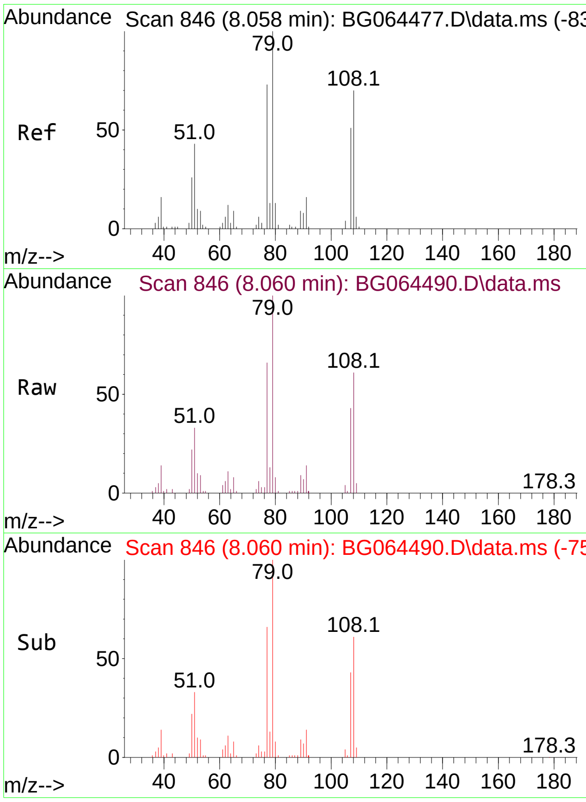
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 58.4 | 50.0 | 75.0 |
| 111 | 42.6 | 35.0 | 52.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

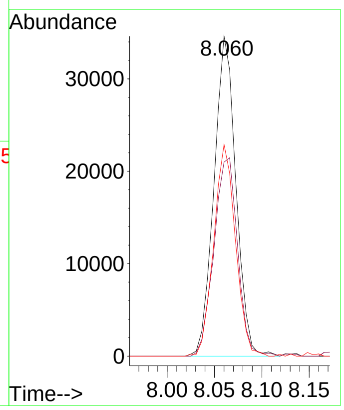
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

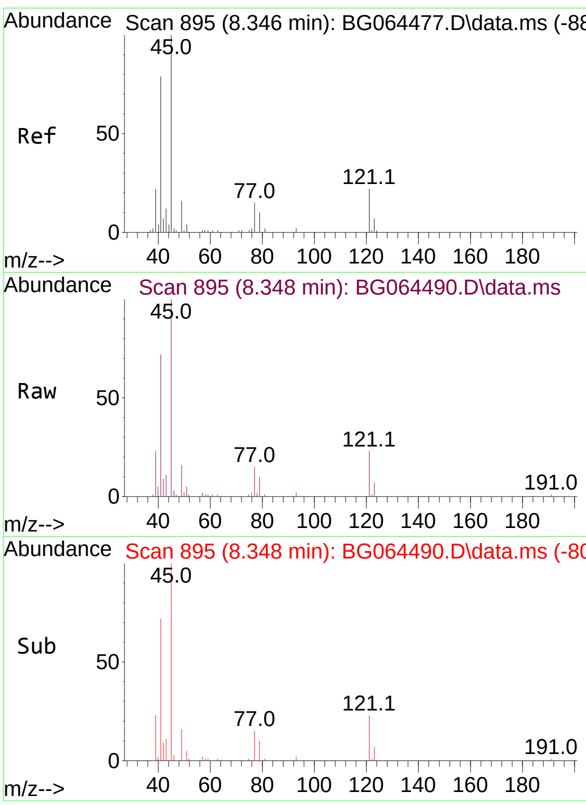



#15
Benzyl Alcohol
Concen: 54.492 ng
RT: 8.060 min Scan# 84
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 79 Resp: 55796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 60.6 | 56.4 | 84.6 |
| 77 | 66.1 | 58.3 | 87.5 |

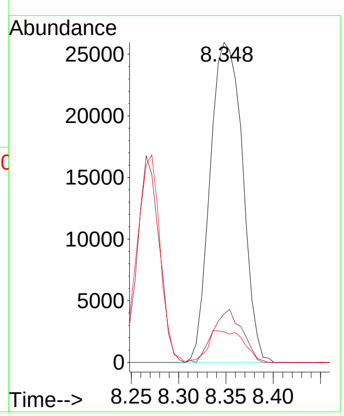



#16
2,2'-oxybis(1-Chloropropane)
Concen: 48.266 ng
RT: 8.348 min Scan# 895
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 45 Resp: 61797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 15.2 | 0.0 | 35.6 |
| 79 | 9.5 | 0.0 | 30.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
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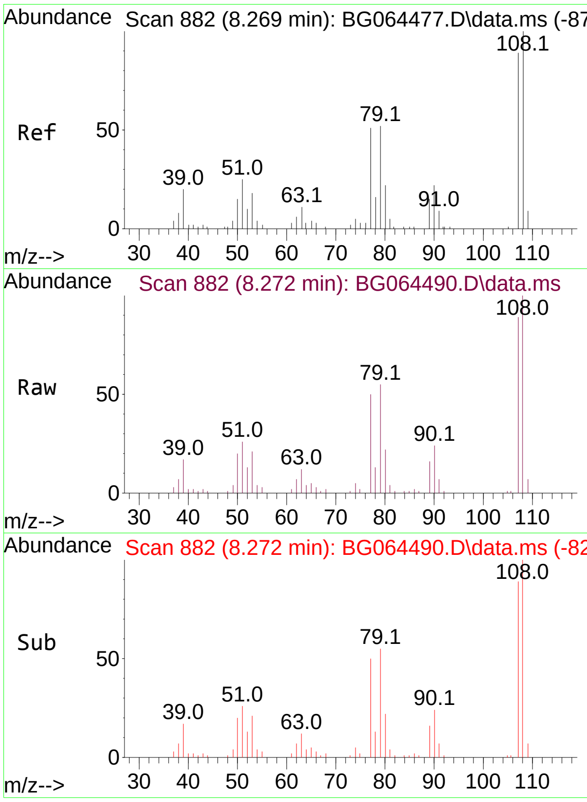
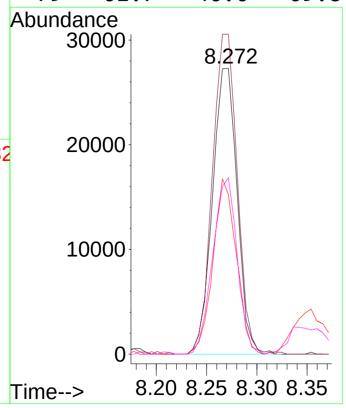
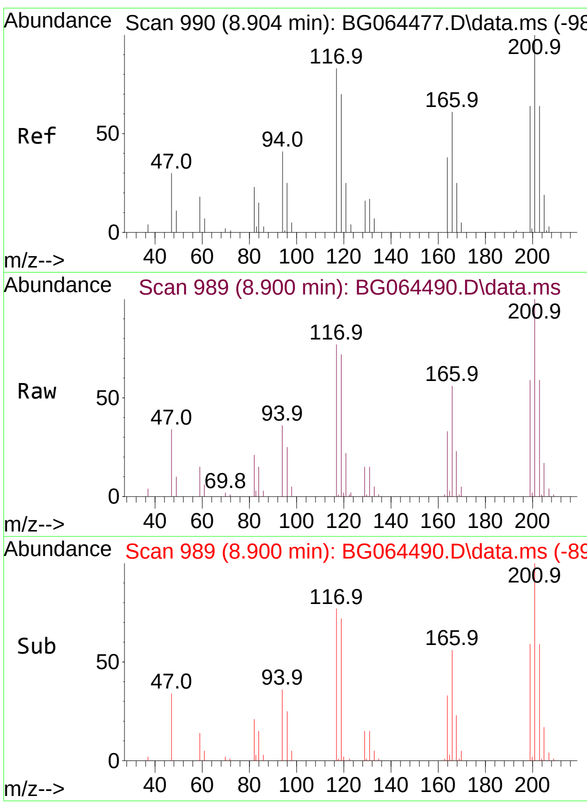



#17
2-Methylphenol
Concen: 54.952 ng
RT: 8.272 min Scan# 88
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

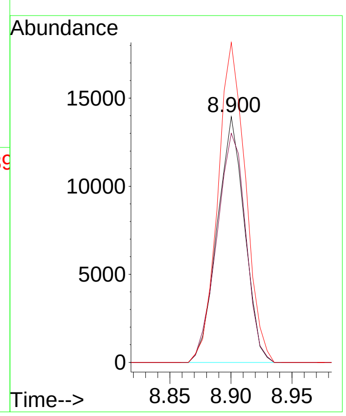
| Tgt Ion:107 | Resp: | 4667 | |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 107 | 100 | | |
| 108 | 112.0 | 90.3 | 135.5 |
| 77 | 55.8 | 46.0 | 69.0 |
| 79 | 61.7 | 46.6 | 69.8 |

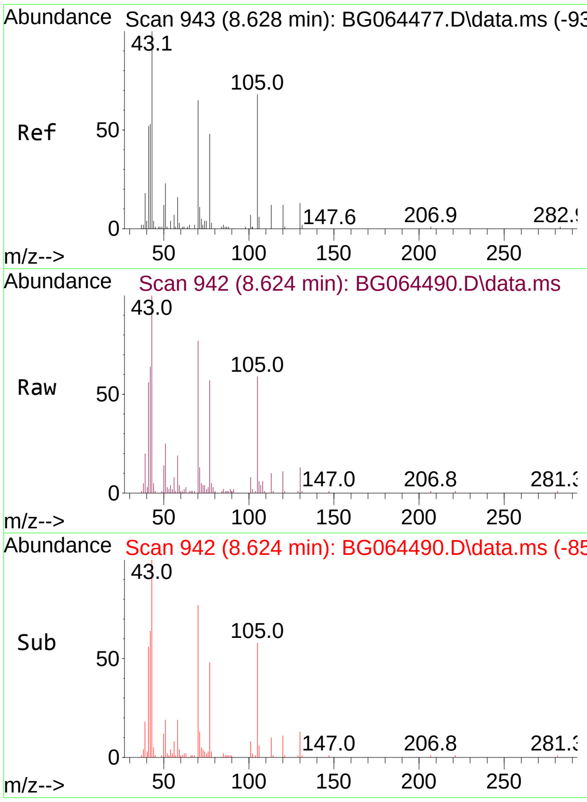



#18
Hexachloroethane
Concen: 49.321 ng
RT: 8.900 min Scan# 989
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

| Tgt Ion:117 | Resp: | 21715 | |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 117 | 100 | | |
| 119 | 91.9 | 67.4 | 101.0 |
| 201 | 128.4 | 95.9 | 143.9 |

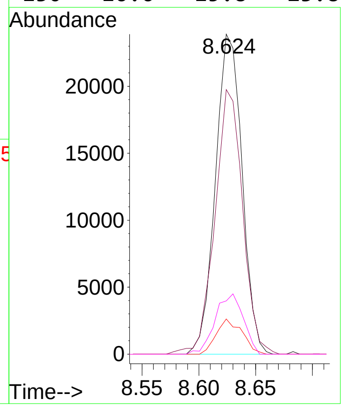





#19
n-Nitroso-di-n-propylamine
Concen:   52.398 ng
RT:   8.624 min   Scan# 94
Delta R.T.   0.010 min
Lab File:   BG064490.D
Acq:  3 Oct 2025   16:57

Tgt Ion: 70 Resp:   3896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 82.7 | 64.9 | 97.3 |
| 101 | 11.0 | 8.7 | 13.1 |
| 130 | 16.6 | 15.8 | 23.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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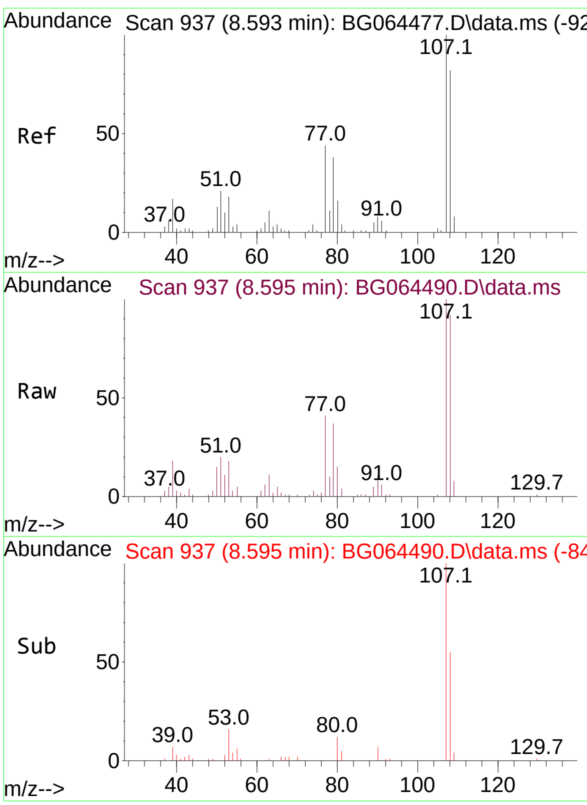
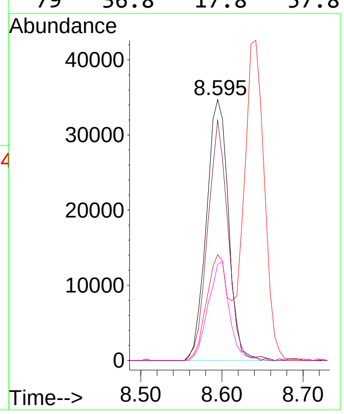
Reviewed By :Rahul Chavli   10/06/2025
Supervised By :Jagrut Upadhyay   10/06/2025




#20
3+4-Methylphenols
Concen:   55.259 ng
RT:   8.595 min   Scan# 937
Delta R.T.   0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025   16:57

Tgt Ion:107 Resp:   65493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 92.0 | 62.1 | 102.1 |
| 77 | 40.6 | 23.5 | 63.5 |
| 79 | 36.8 | 17.8 | 57.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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Reviewed By :Rahul Chavli 10/06/2025
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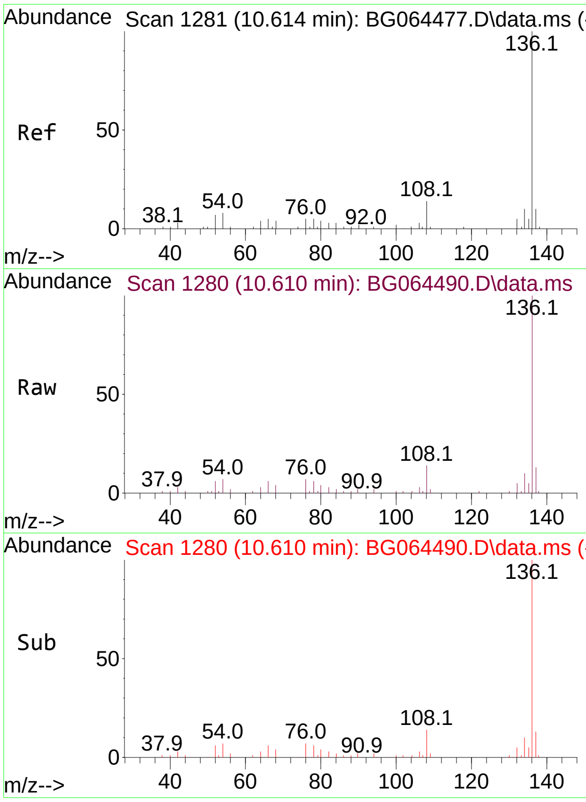
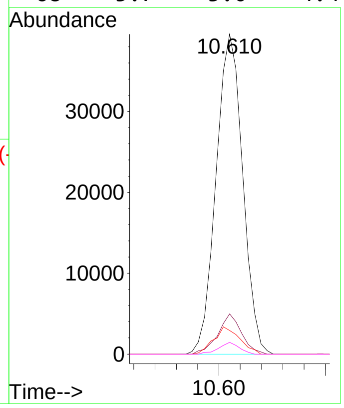
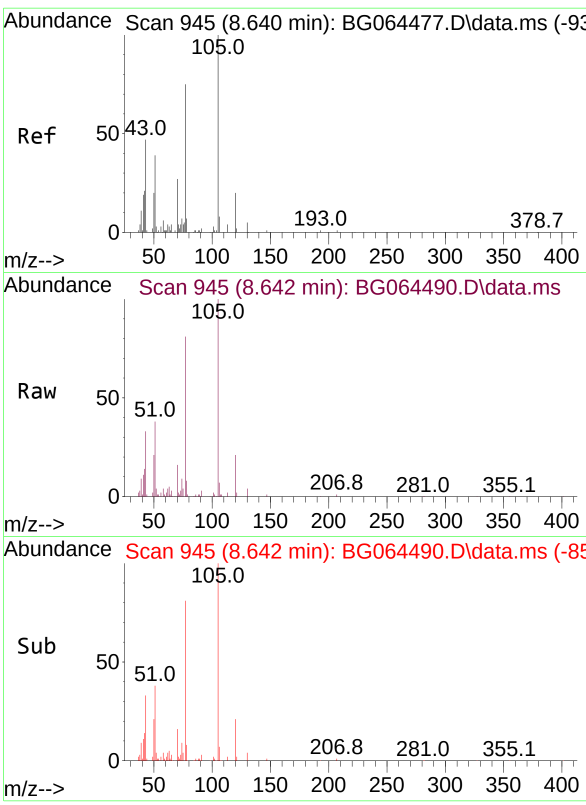
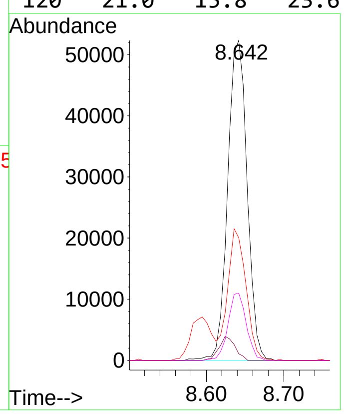


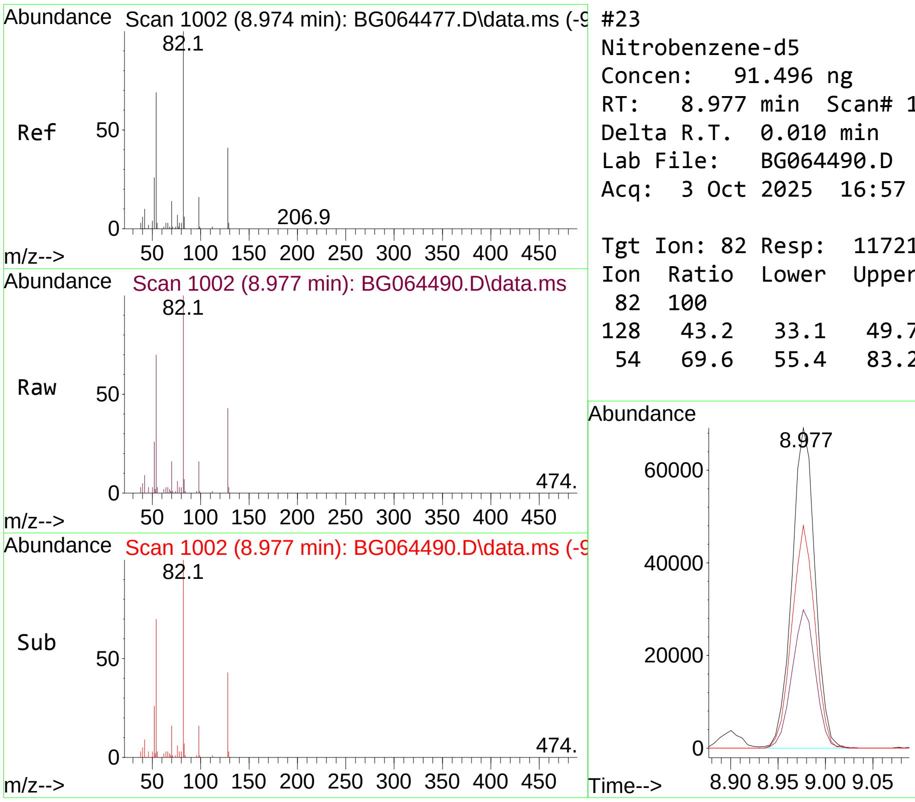

```
#21
Naphthalene-d8
Concen:   20.000 ng
RT:  10.610 min  Scan# 1
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:136 Resp:   6888
Ion  Ratio  Lower  Upper
136  100
137   12.6    8.3   12.5#
 54    7.4    6.2    9.4
 68    3.7    3.0    4.4
```




```
#22
Acetophenone
Concen:   54.885 ng
RT:   8.642 min  Scan# 945
Delta R.T.  0.010 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:105 Resp:   91544
Ion  Ratio  Lower  Upper
105  100
 71    2.1    2.8    4.2#
 51   38.3   33.0   49.4
120   21.0   15.8   23.6
```





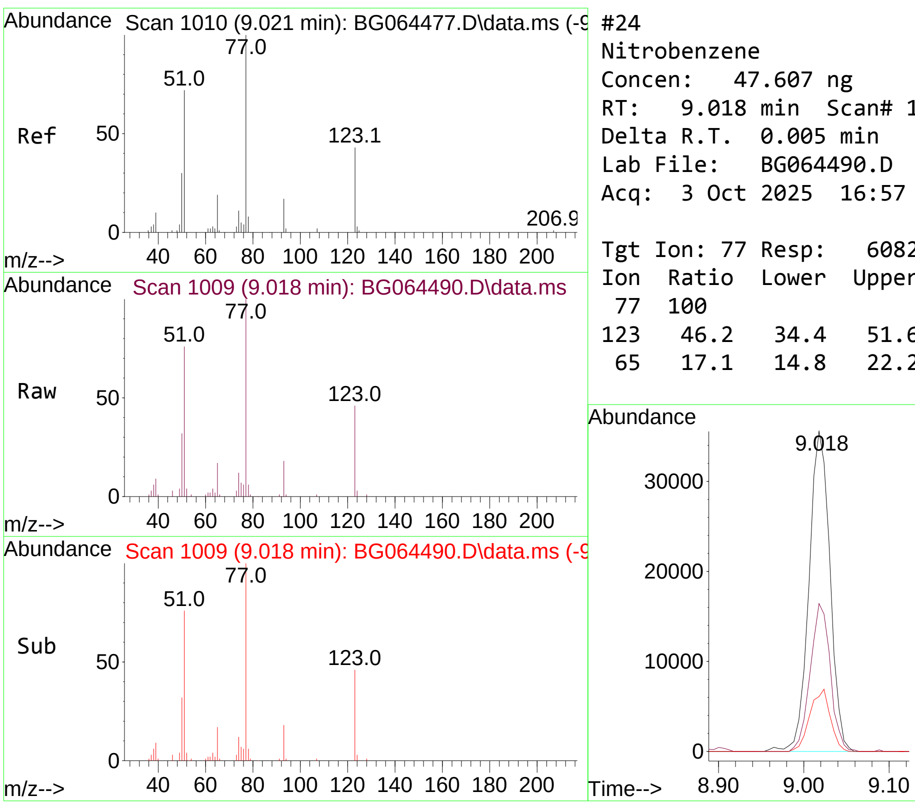

#23
Nitrobenzene-d5
Concen: 91.496 ng
RT: 8.977 min Scan# 10
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 82 Resp: 117218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.2 | 33.1 | 49.7 |
| 54 | 69.6 | 55.4 | 83.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#24
Nitrobenzene
Concen: 47.607 ng
RT: 9.018 min Scan# 1009
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

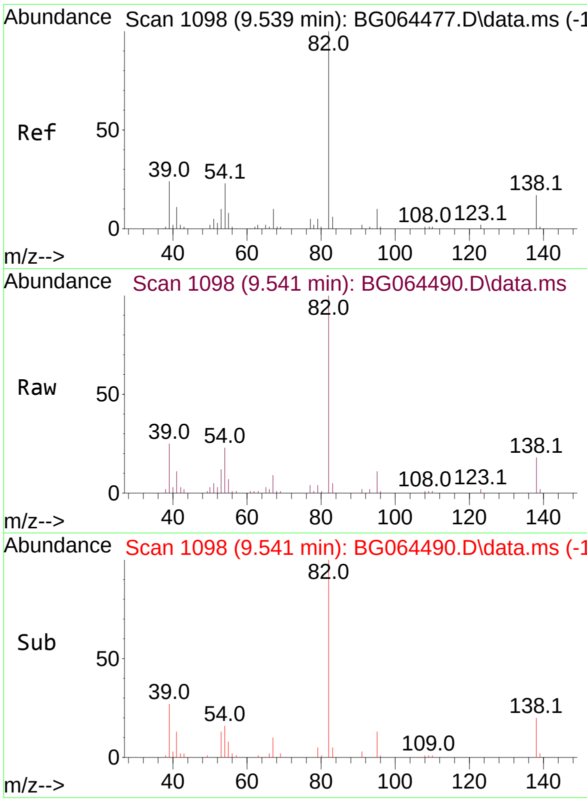
Tgt Ion: 77 Resp: 60821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 46.2 | 34.4 | 51.6 |
| 65 | 17.1 | 14.8 | 22.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

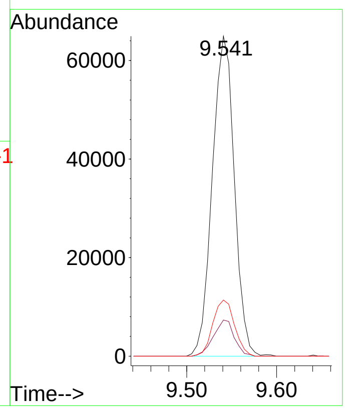
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

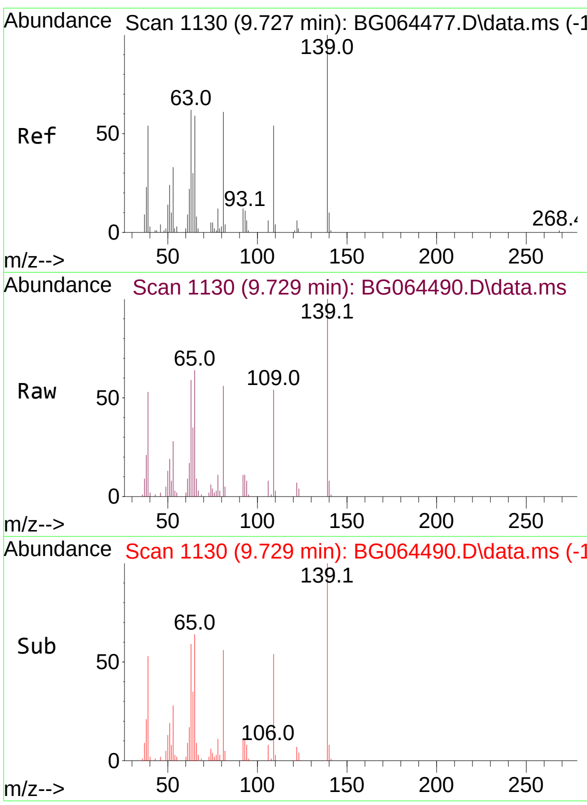



#25
Isophorone
Concen: 47.697 ng
RT: 9.541 min Scan# 10
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 82 Resp: 110698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 11.3 | 7.8 | 11.8 |
| 138 | 17.5 | 13.8 | 20.6 |

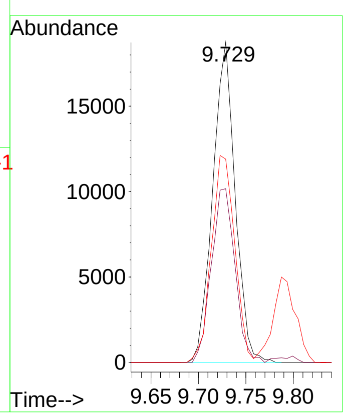



#26
2-Nitrophenol
Concen: 48.432 ng
RT: 9.729 min Scan# 1130
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

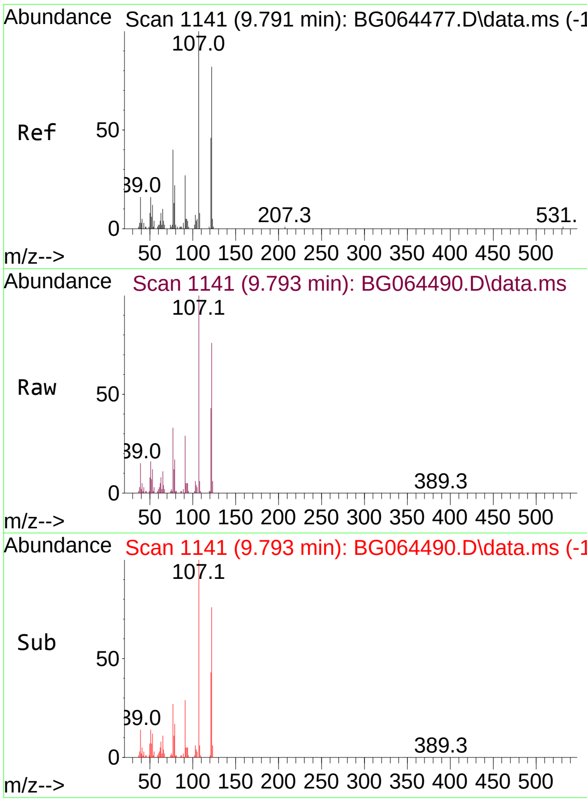
Tgt Ion:139 Resp: 30795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 54.3 | 43.0 | 64.6 |
| 65 | 63.5 | 47.4 | 71.2 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

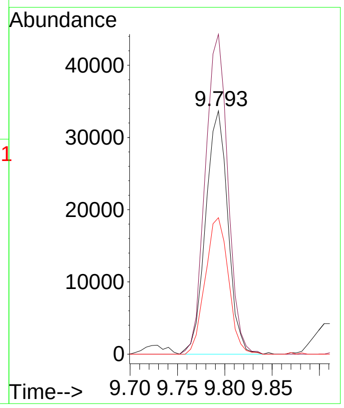
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

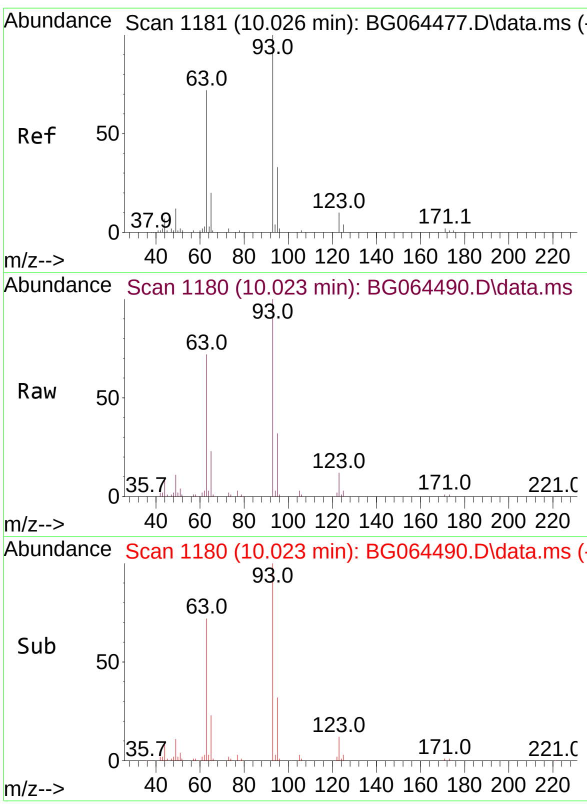



#27
2,4-Dimethylphenol
Concen: 56.953 ng
RT: 9.793 min Scan# 1
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:122 Resp: 5531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 131.5 | 98.3 | 147.5 |
| 121 | 56.1 | 44.7 | 67.1 |

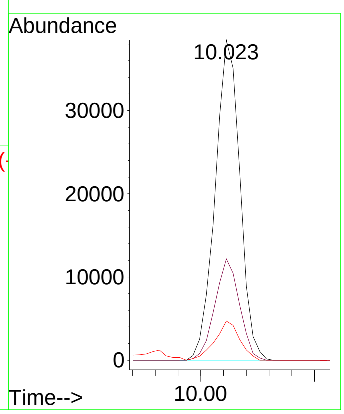



#28
bis(2-Chloroethoxy)methane
Concen: 49.333 ng
RT: 10.023 min Scan# 1180
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 93 Resp: 58363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 31.6 | 26.5 | 39.7 |
| 123 | 12.2 | 8.9 | 13.3 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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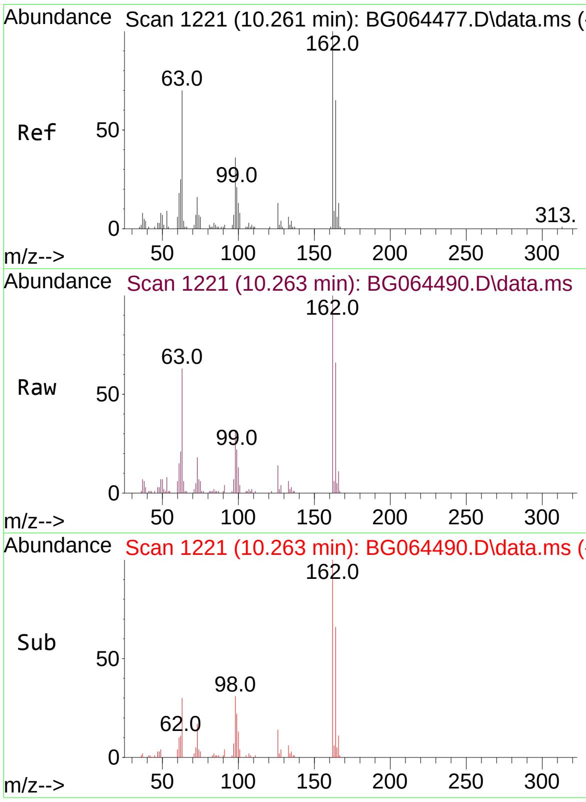
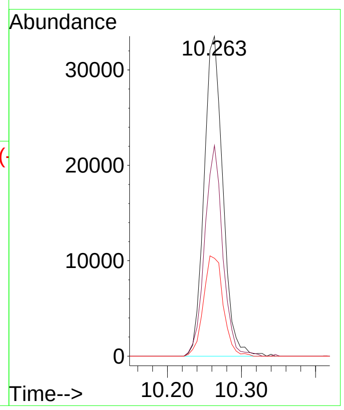
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

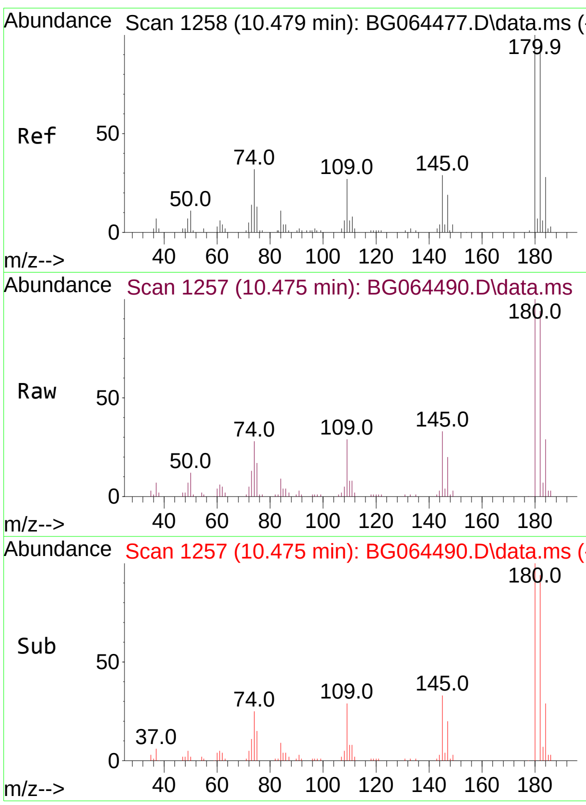



#29
2,4-Dichlorophenol
Concen: 52.643 ng
RT: 10.263 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:162 Resp: 5912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 65.8 | 45.4 | 85.4 |
| 98 | 30.6 | 16.4 | 56.4 |

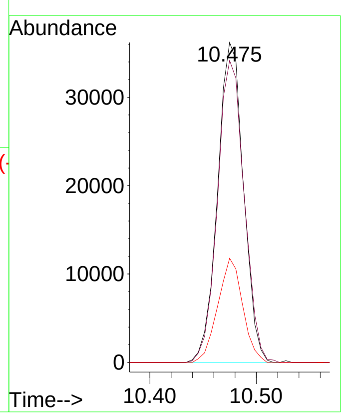


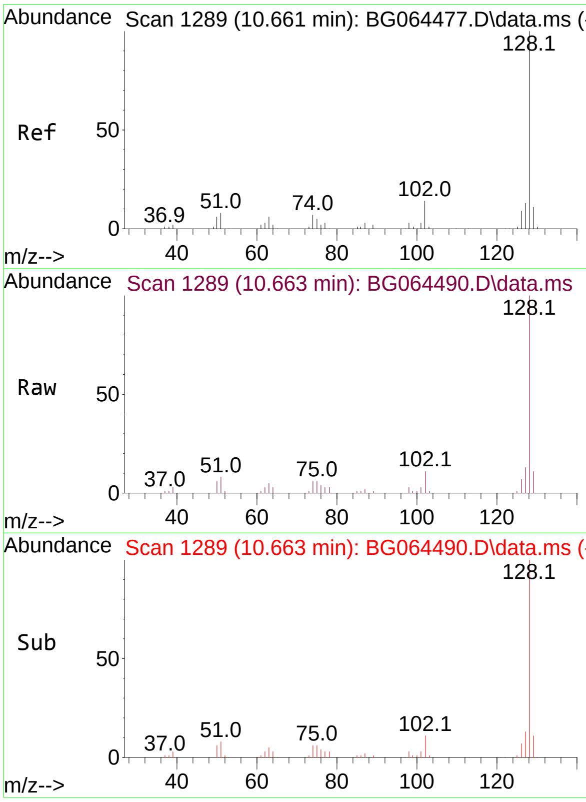




#30
1,2,4-Trichlorobenzene
Concen: 50.056 ng
RT: 10.475 min Scan# 1257
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:180 Resp: 61294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 75.4 | 113.2 |
| 145 | 32.5 | 23.2 | 34.8 |



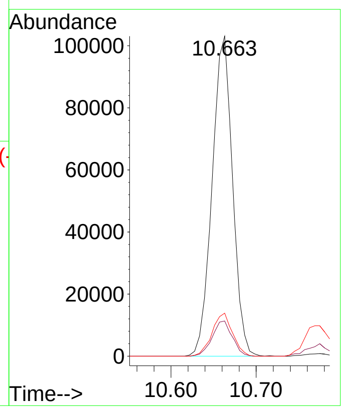


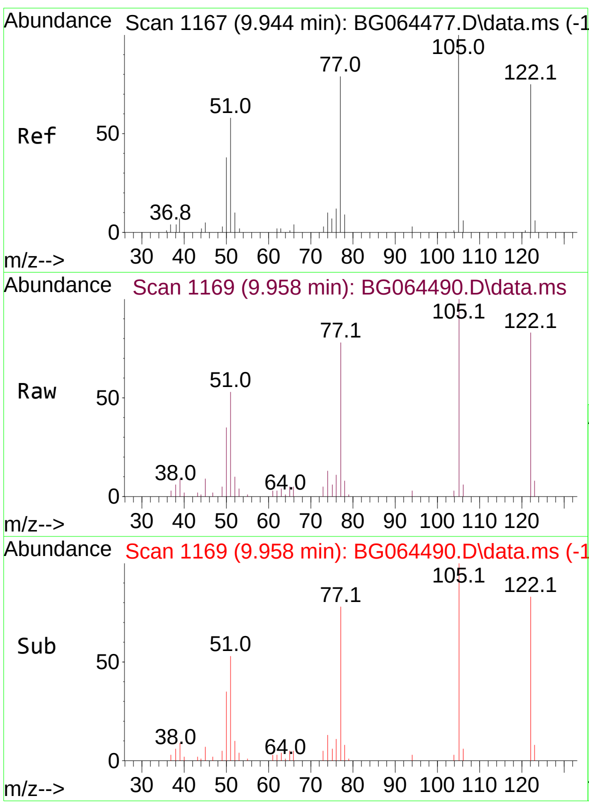

```
#31
Naphthalene
Concen:   48.456 ng
RT:  10.663 min  Scan# 1
Delta R.T.  0.010 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:128 Resp:  17188
Ion  Ratio  Lower  Upper
128  100
129   11.0    8.7   13.1
127   13.4   10.2   15.2
```

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

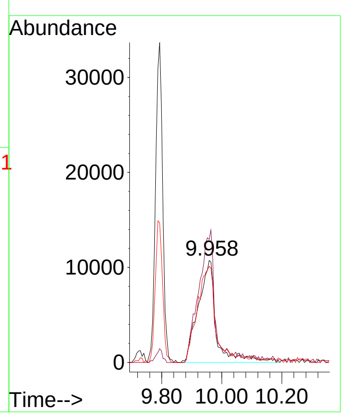
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




```
#32
Benzoic acid
Concen:   60.300 ng  m
RT:   9.958 min  Scan# 1169
Delta R.T.  0.069 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:122 Resp:   44961
Ion  Ratio  Lower  Upper
122  100
105  120.7  113.9  153.9
 77   94.2   86.1  126.1
```



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

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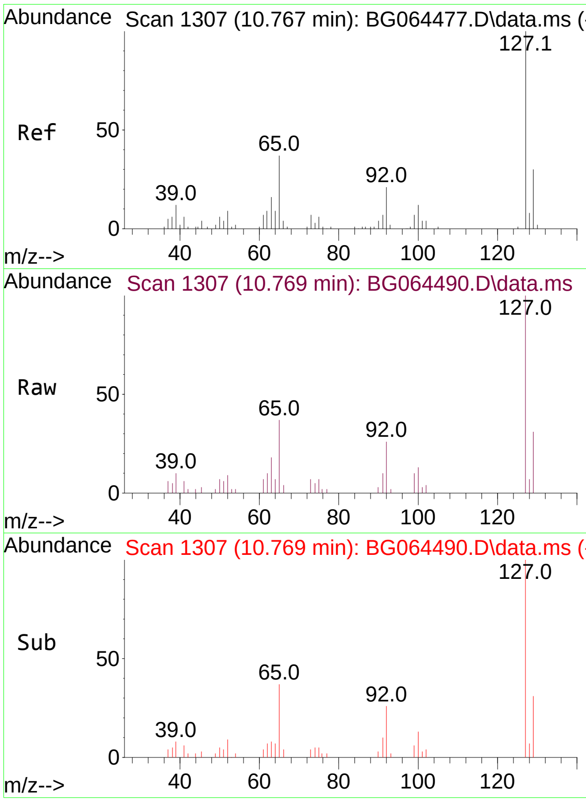
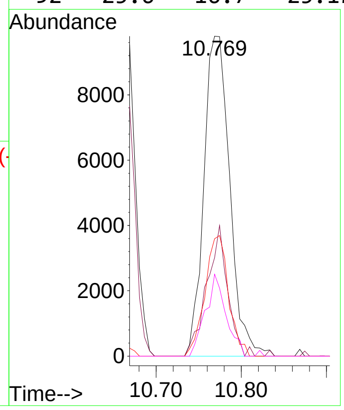
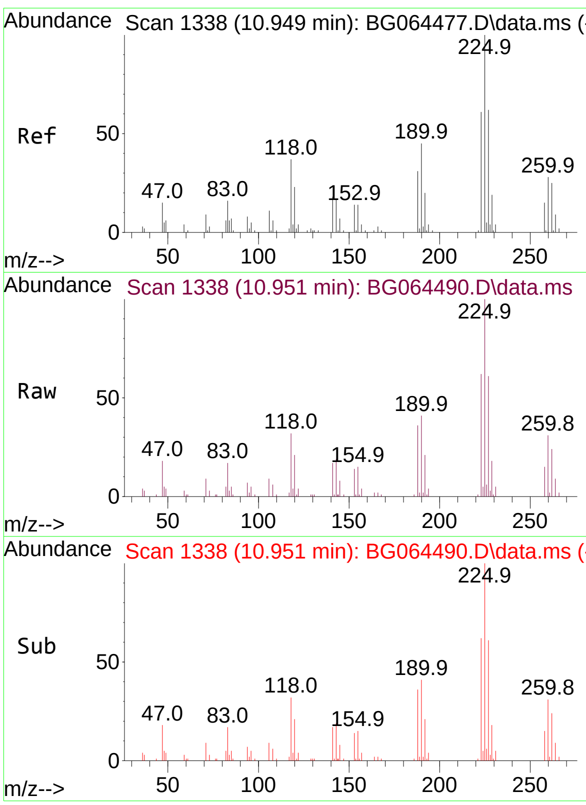
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

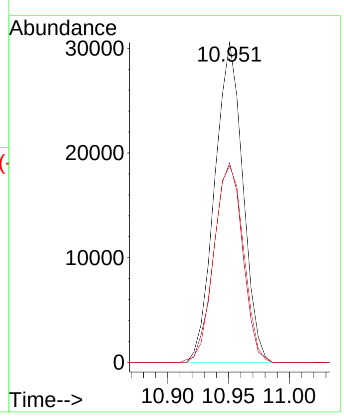


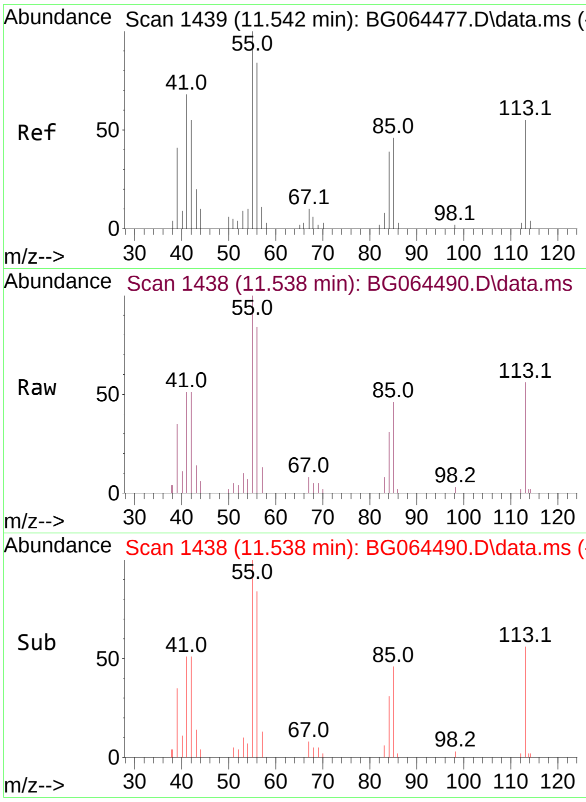

```
#33
4-Chloroaniline
Concen:   15.203 ng
RT:  10.769 min  Scan# 1
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:127 Resp:   2069
Ion  Ratio  Lower  Upper
127  100
129   30.8   24.2   36.4
 65   36.7   29.6   44.4
 92   25.6   16.7   25.1#
```




```
#34
Hexachlorobutadiene
Concen:   46.959 ng
RT:  10.951 min  Scan# 1338
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:225 Resp:   49245
Ion  Ratio  Lower  Upper
225  100
223   62.3   49.0   73.6
227   61.4   49.9   74.9
```






#35
Caprolactam
Concen: 50.120 ng m
RT: 11.538 min Scan# 14
Delta R.T. 0.028 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

Tgt Ion:113 Resp: 1926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 179.1 | 162.0 | 202.0 |
| 56 | 150.1 | 134.6 | 174.6 |

**Manual Integrations**
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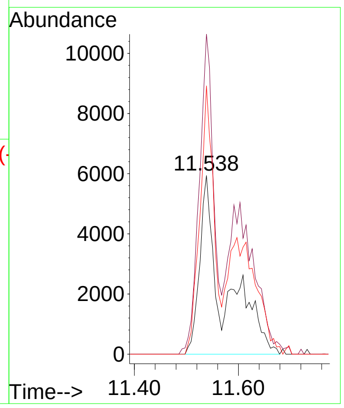
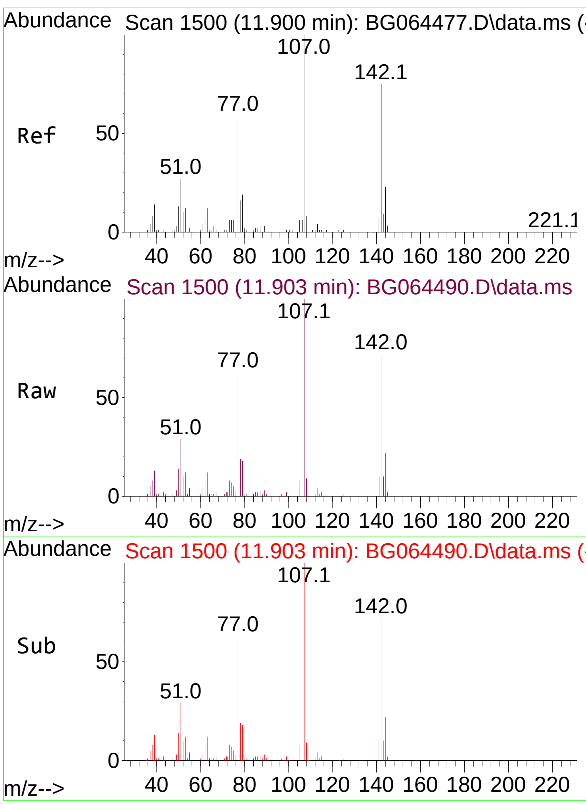
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

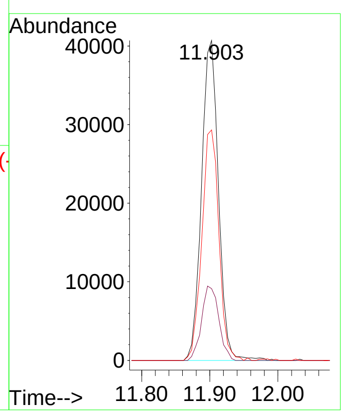


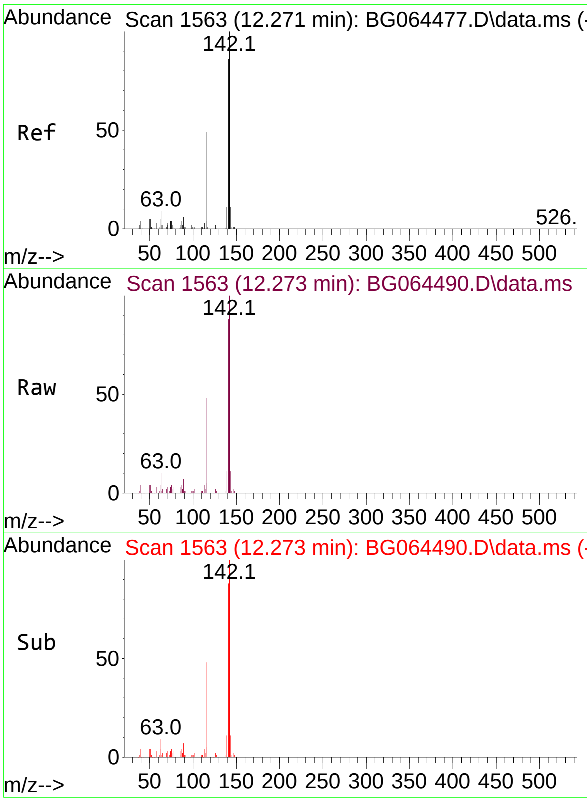




#36
4-Chloro-3-methylphenol
Concen: 51.566 ng
RT: 11.903 min Scan# 1500
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:107 Resp: 70424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.4 | 18.7 | 28.1 |
| 142 | 72.0 | 60.2 | 90.2 |






#37
2-Methylnaphthalene
Concen: 44.505 ng
RT: 12.273 min Scan# 15
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:142 Resp: 12118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 68.7 | 103.1 |
| 115 | 47.9 | 39.3 | 58.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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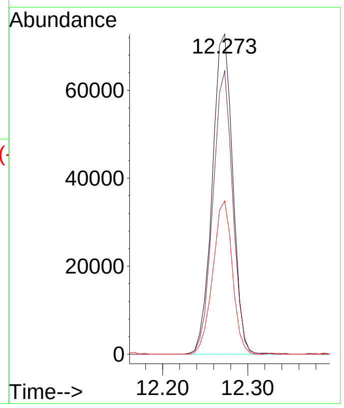
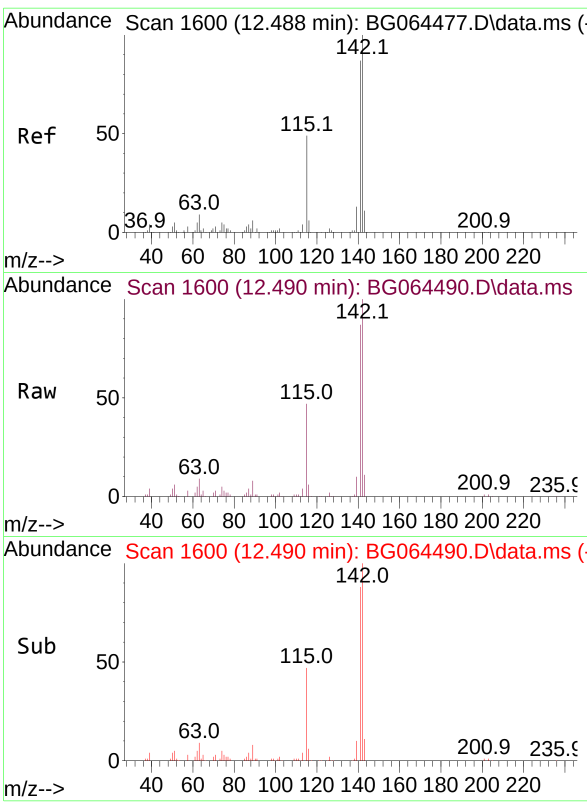
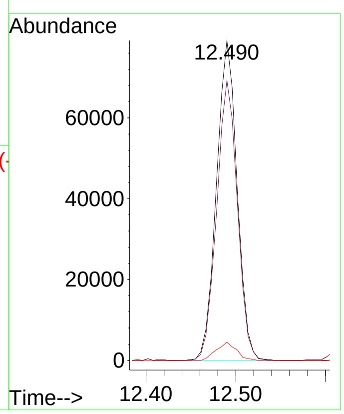


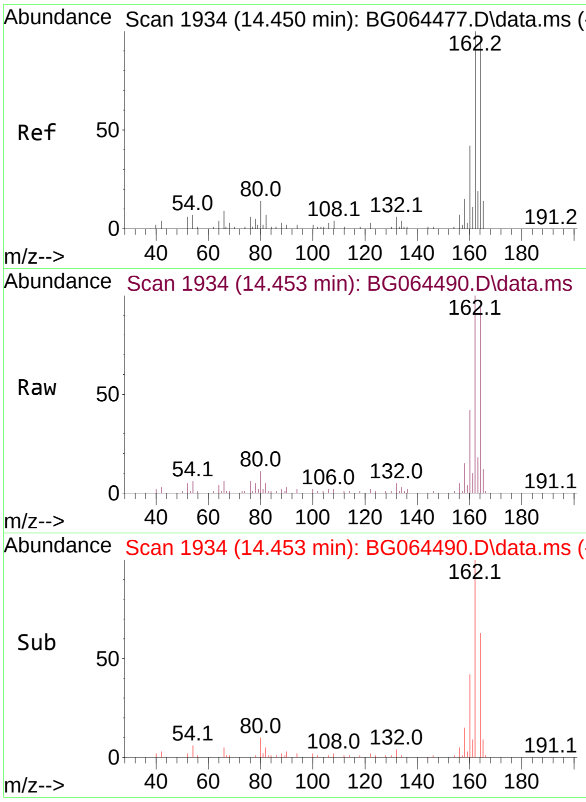




#38
1-Methylnaphthalene
Concen: 46.659 ng
RT: 12.490 min Scan# 1600
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:142 Resp: 126687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.5 | 69.8 | 104.8 |
| 116 | 5.7 | 4.6 | 6.8 |






#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.453 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

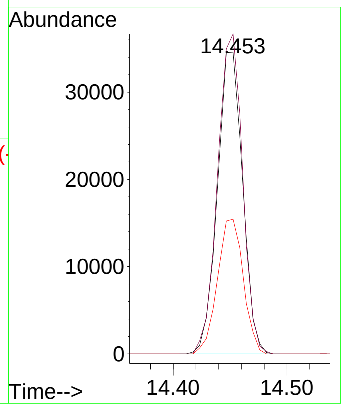
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

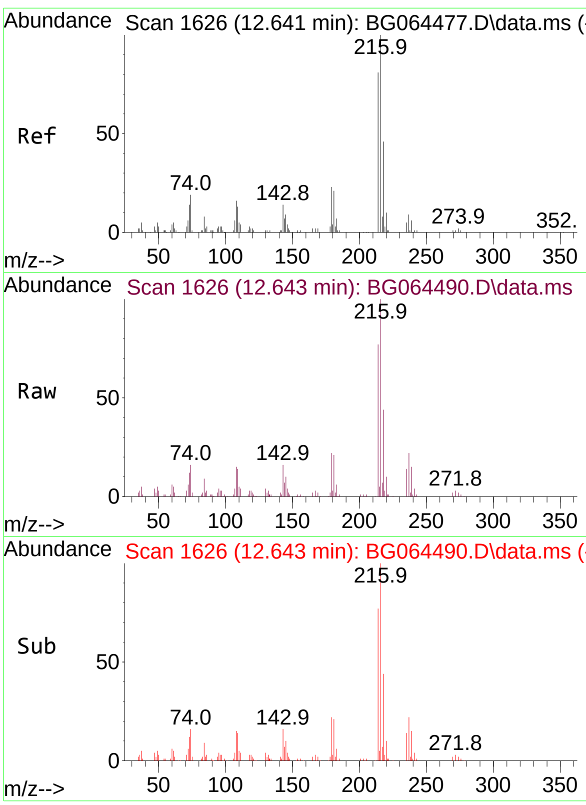
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Tgt Ion:164 Resp: 5356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.1 | 82.2 | 123.2 |
| 160 | 44.6 | 34.3 | 51.5 |

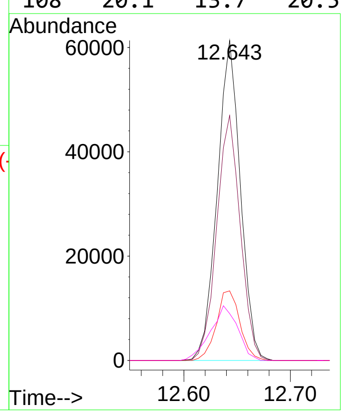


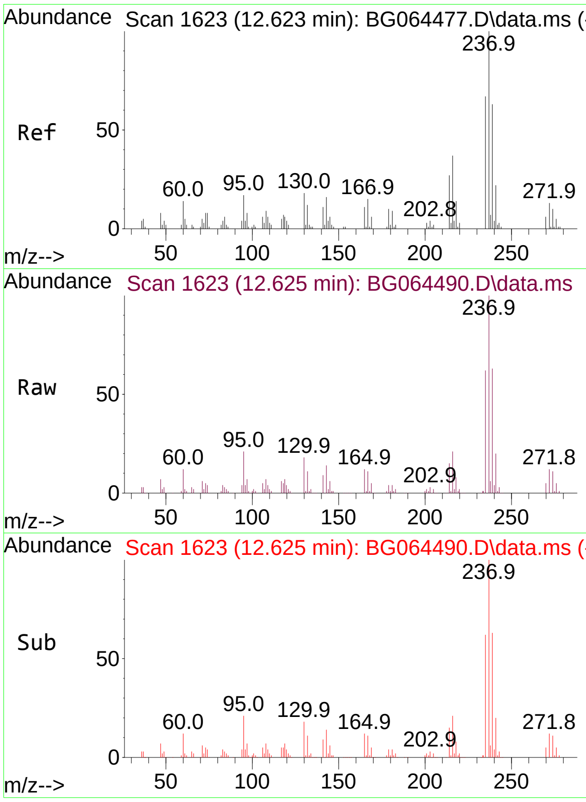




#40
1,2,4,5-Tetrachlorobenzene
Concen: 53.737 ng
RT: 12.643 min Scan# 1626
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:216 Resp: 92935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.7 | 62.5 | 93.7 |
| 179 | 22.2 | 17.0 | 25.6 |
| 108 | 20.1 | 13.7 | 20.5 |






#41
Hexachlorocyclopentadiene
Concen: 136.260 ng
RT: 12.625 min Scan# 16
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:237 Resp: 12326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.0 | 46.9 | 86.9 |
| 272 | 11.6 | 0.0 | 32.6 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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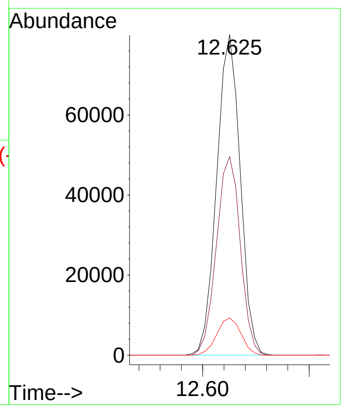
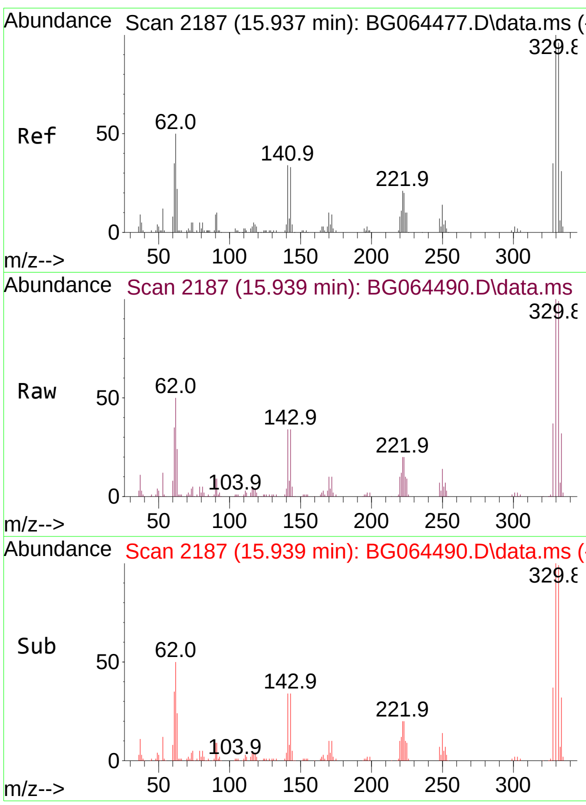
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

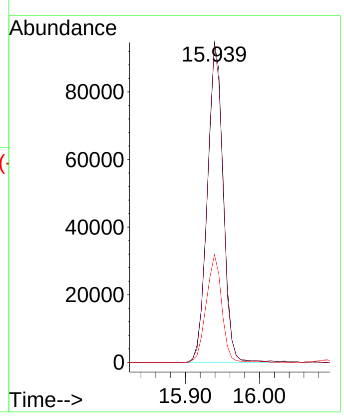


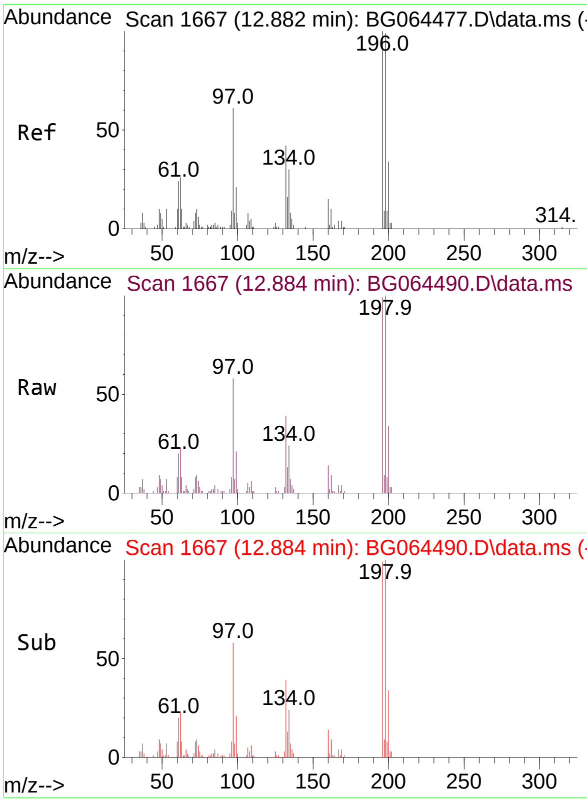




#42
2,4,6-Tribromophenol
Concen: 144.412 ng
RT: 15.939 min Scan# 2187
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:330 Resp: 140210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.1 | 77.4 | 116.0 |
| 141 | 32.8 | 25.8 | 38.6 |






#43
2,4,6-Trichlorophenol
Concen:   51.908 ng
RT:  12.884 min  Scan# 16
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

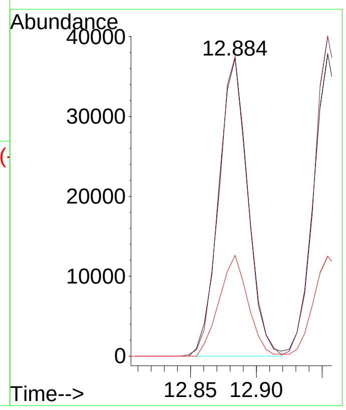
Tgt Ion:196 Resp:   5738

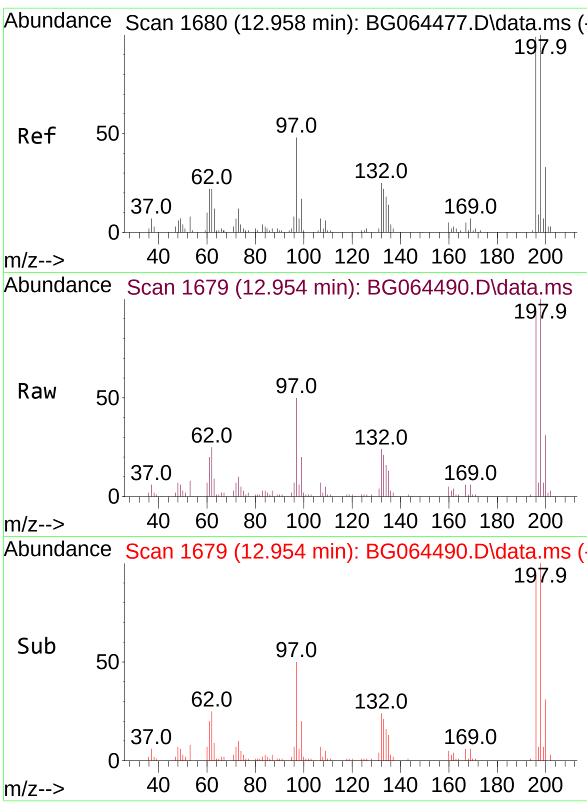
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.7 | 79.3 | 118.9 |
| 200 | 33.8 | 27.4 | 41.2 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

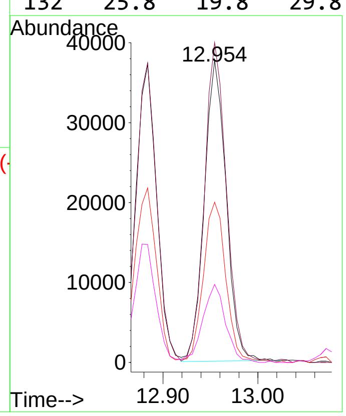



#44
2,4,5-Trichlorophenol
Concen:   49.008 ng
RT:  12.954 min  Scan# 1679
Delta R.T.  -0.001 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

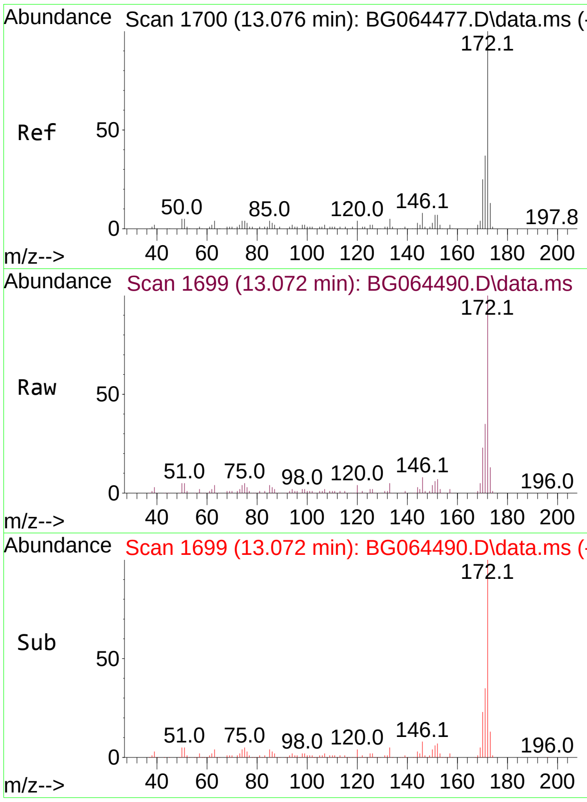
Tgt Ion:196 Resp:   60489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 105.9 | 80.3 | 120.5 |
| 97 | 53.0 | 39.4 | 59.0 |
| 132 | 25.8 | 19.8 | 29.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

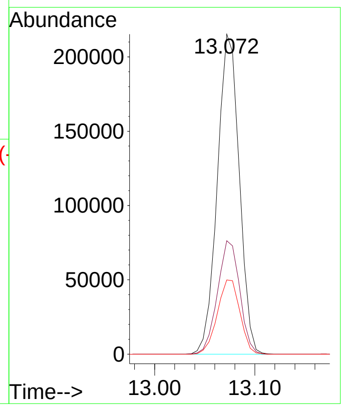
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

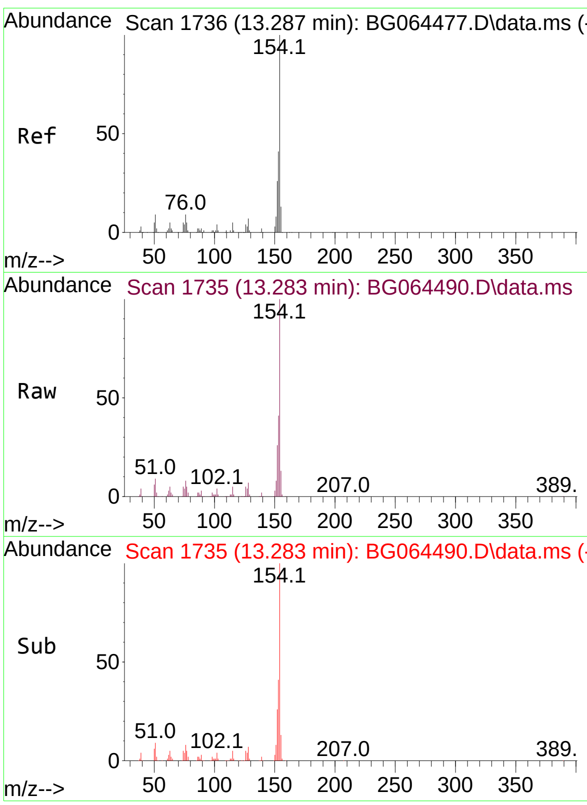



#45
2-Fluorobiphenyl
Concen: 90.288 ng
RT: 13.072 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:172 Resp: 32809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 29.6 | 44.4 |
| 170 | 23.2 | 20.2 | 30.2 |

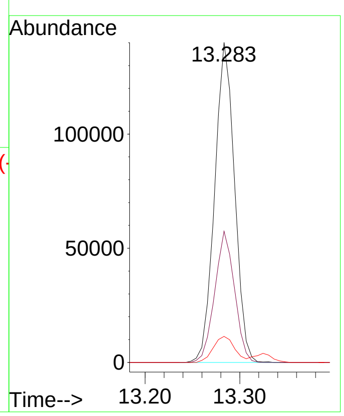


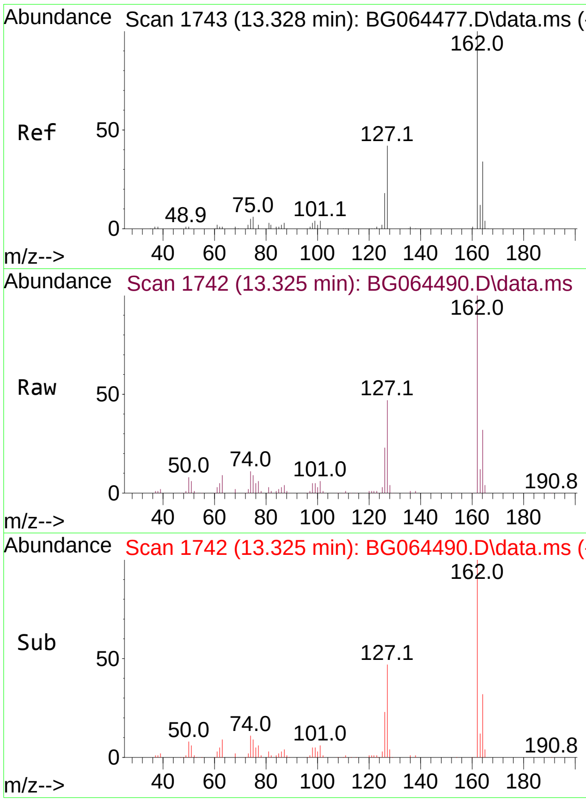




#46
1,1'-Biphenyl
Concen: 53.183 ng
RT: 13.283 min Scan# 1735
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:154 Resp: 204884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.0 | 20.7 | 60.7 |
| 76 | 8.1 | 0.0 | 29.3 |






#47
2-Chloronaphthalene
Concen: 47.440 ng
RT: 13.325 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

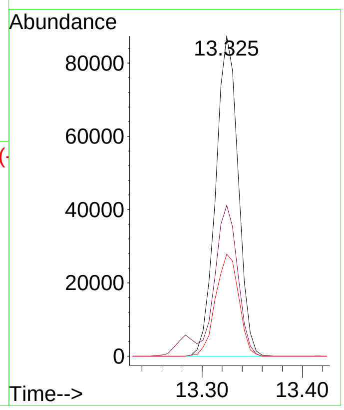
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

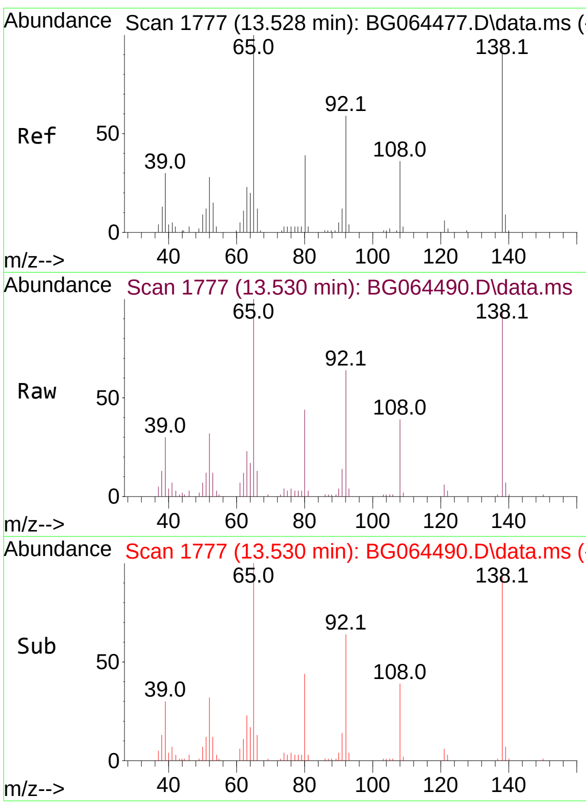
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Tgt Ion:162 Resp: 13645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 47.1 | 35.8 | 53.8 |
| 164 | 31.9 | 27.2 | 40.8 |

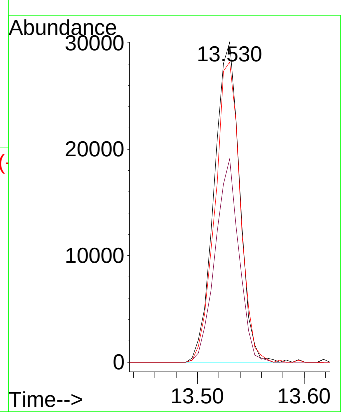


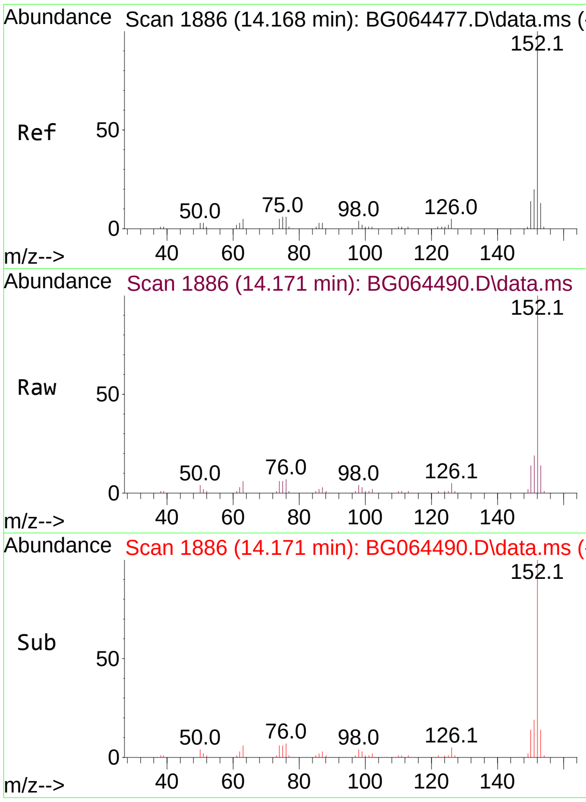




#48
2-Nitroaniline
Concen: 50.563 ng
RT: 13.530 min Scan# 1777
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion: 65 Resp: 49637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 63.5 | 47.0 | 70.6 |
| 138 | 93.8 | 73.5 | 110.3 |






#49
Acenaphthylene
Concen:   55.463 ng
RT:  14.171 min  Scan# 18
Delta R.T.  -0.001 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:152 Resp:  236815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 15.8 | 23.6 |
| 153 | 14.1 | 10.6 | 15.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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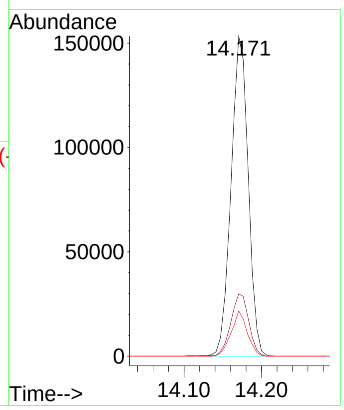
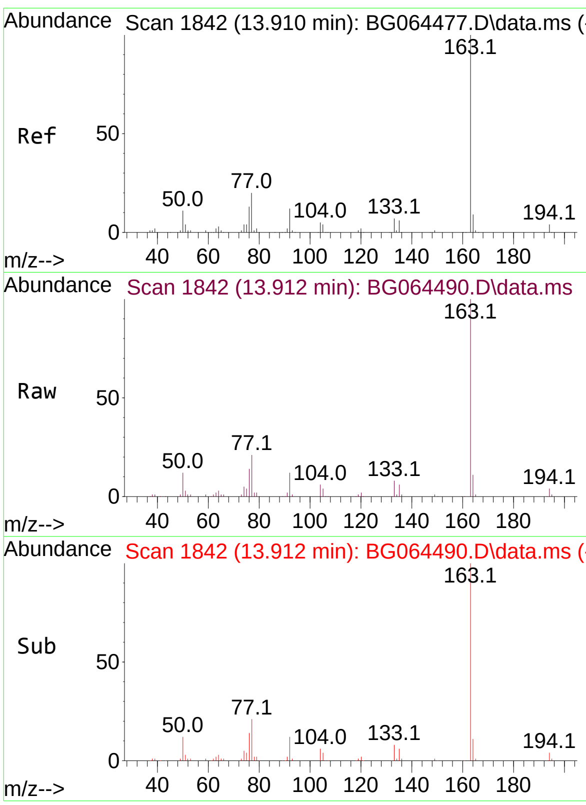
Reviewed By :Rahul Chavli   10/06/2025
Supervised By :Jagrut Upadhyay   10/06/2025

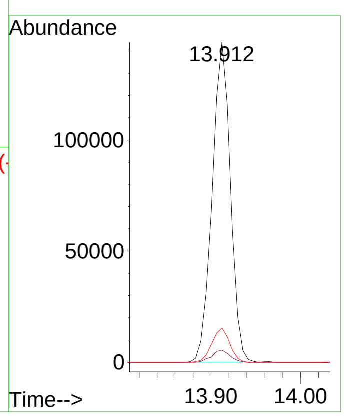



#50
Dimethylphthalate
Concen:   48.581 ng
RT:  13.912 min  Scan# 1842
Delta R.T.  0.010 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

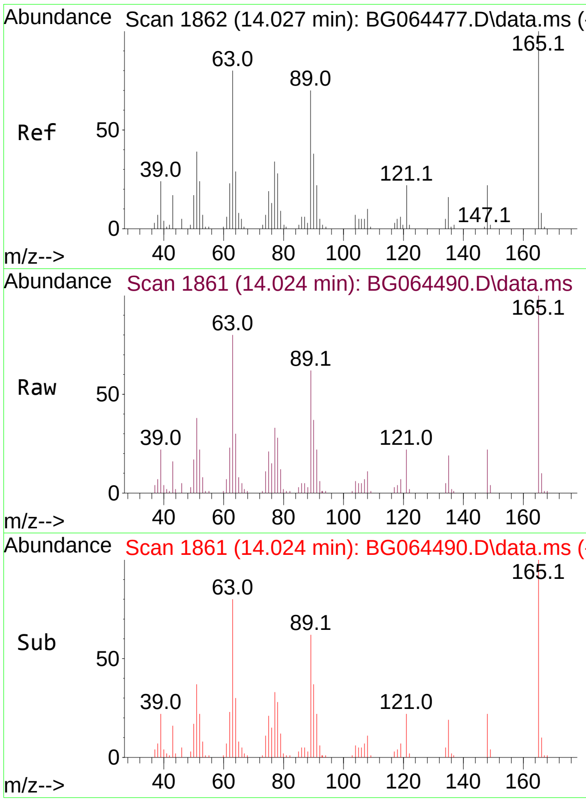
Tgt Ion:163 Resp:  203802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 2.9 | 4.3 |
| 164 | 10.7 | 7.4 | 11.0 |

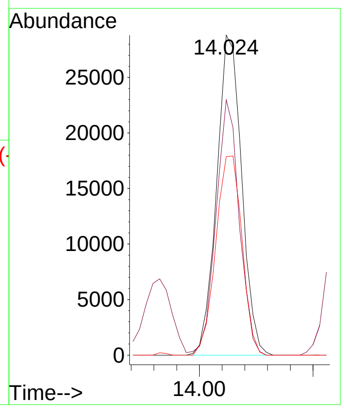


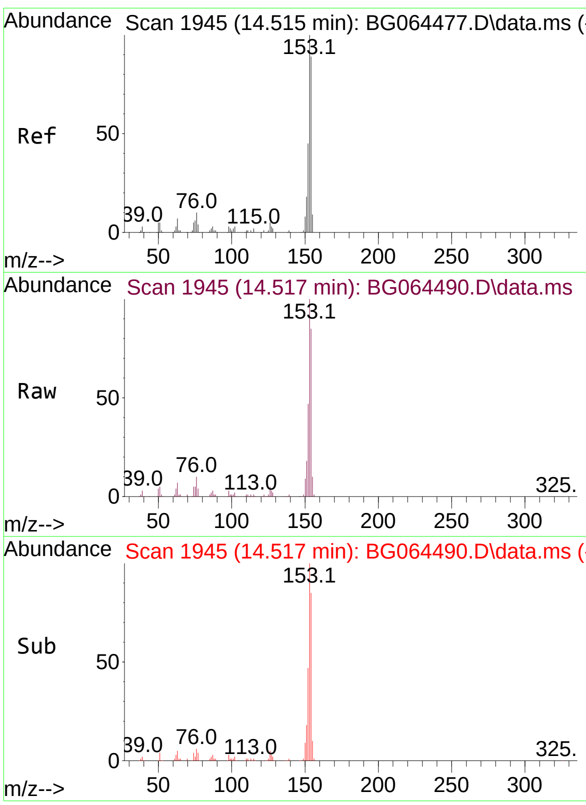
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

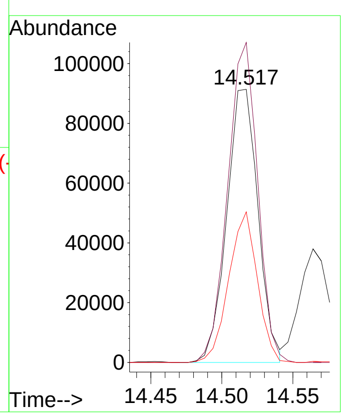



```
#51
2,6-Dinitrotoluene
Concen:   50.241 ng
RT:  14.024 min   Scan# 18
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:165 Resp:   4390
Ion  Ratio  Lower  Upper
165  100
 63   79.8   63.9   95.9
 89   62.0   56.1   84.1
```



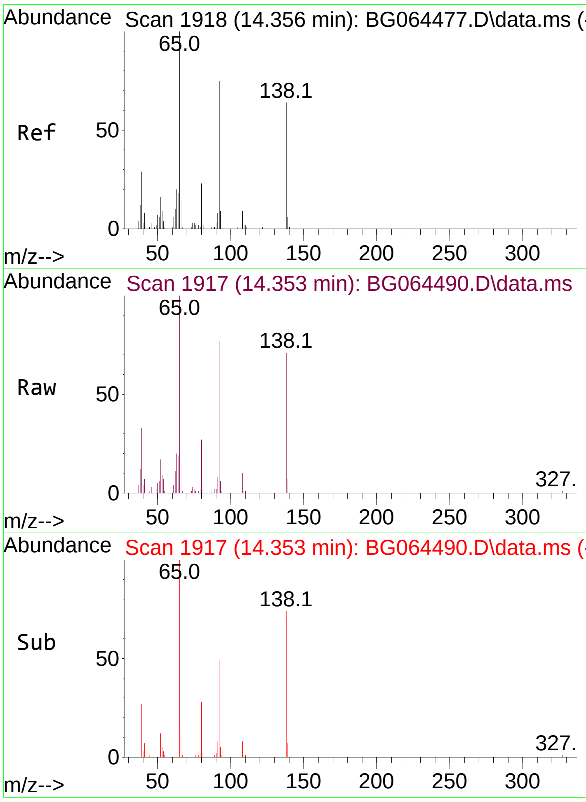

```
#52
Acenaphthene
Concen:   47.264 ng
RT:  14.517 min   Scan# 1945
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:154 Resp:  140204
Ion  Ratio  Lower  Upper
154  100
153  117.2   90.2  135.4
152   55.1   40.2   60.4
```



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

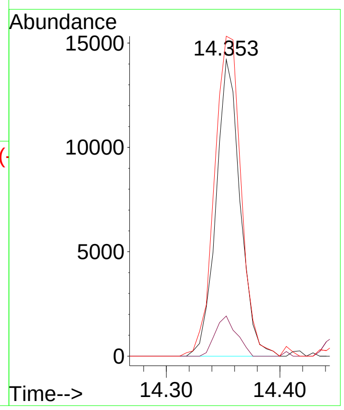
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

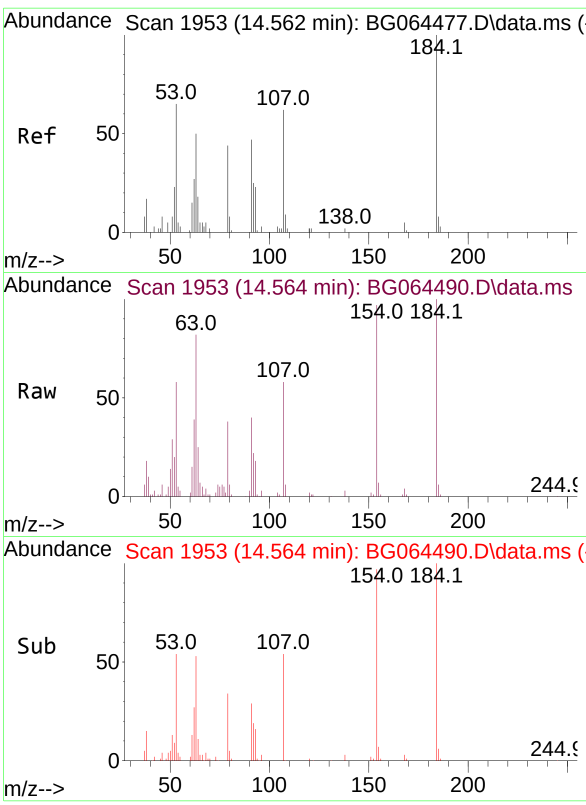



#53
3-Nitroaniline
Concen: 26.116 ng
RT: 14.353 min Scan# 1
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:138 Resp: 2104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 13.5 | 10.6 | 15.8 |
| 92 | 107.9 | 93.2 | 139.8 |

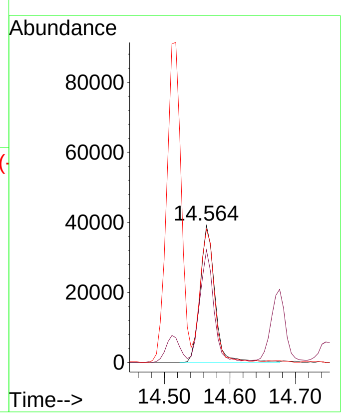



#54
2,4-Dinitrophenol
Concen: 96.115 ng
RT: 14.564 min Scan# 1953
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:184 Resp: 60905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 82.2 | 69.0 | 103.4 |
| 154 | 97.2 | 95.6 | 143.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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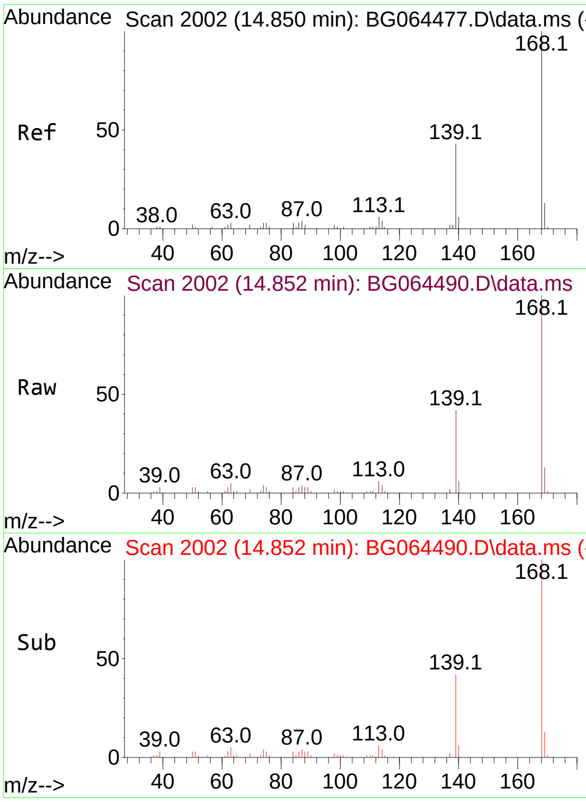
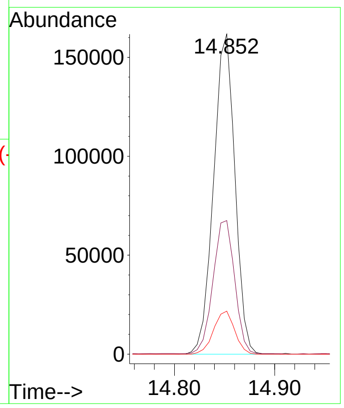
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

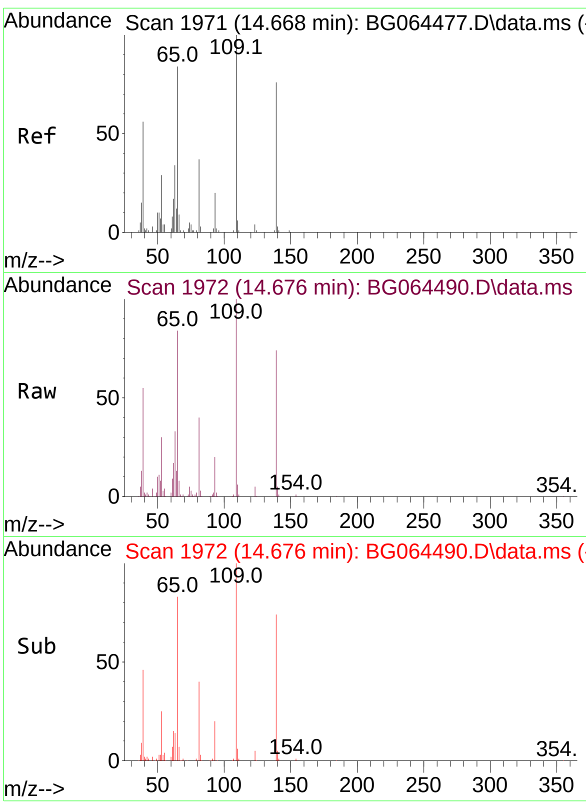



#55
Dibenzofuran
Concen: 48.950 ng
RT: 14.852 min Scan# 2002
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:168 Resp: 239756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.7 | 34.0 | 51.0 |
| 169 | 13.4 | 10.2 | 15.2 |

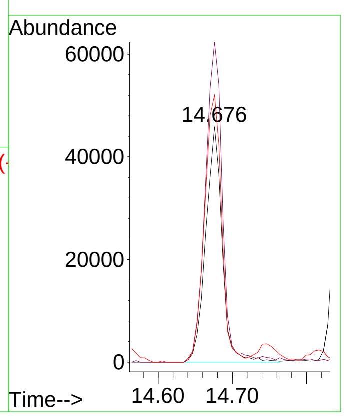


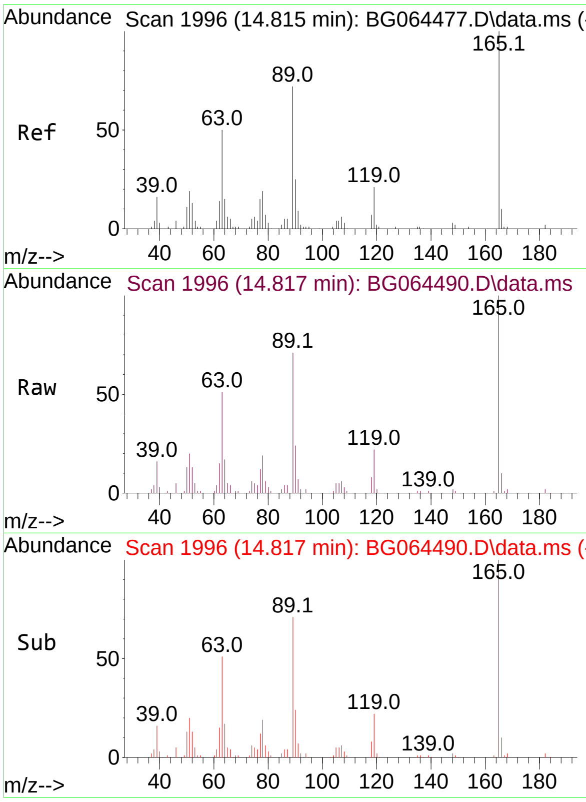




#56
4-Nitrophenol
Concen: 111.171 ng
RT: 14.676 min Scan# 1972
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:139 Resp: 70541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 135.9 | 111.8 | 151.8 |
| 65 | 113.5 | 91.1 | 131.1 |

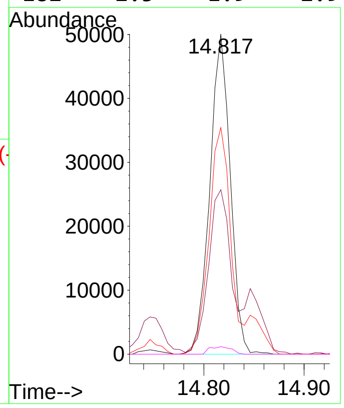





#57
2,4-Dinitrotoluene
Concen: 53.174 ng
RT: 14.817 min Scan# 19
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:165 Resp: 71035

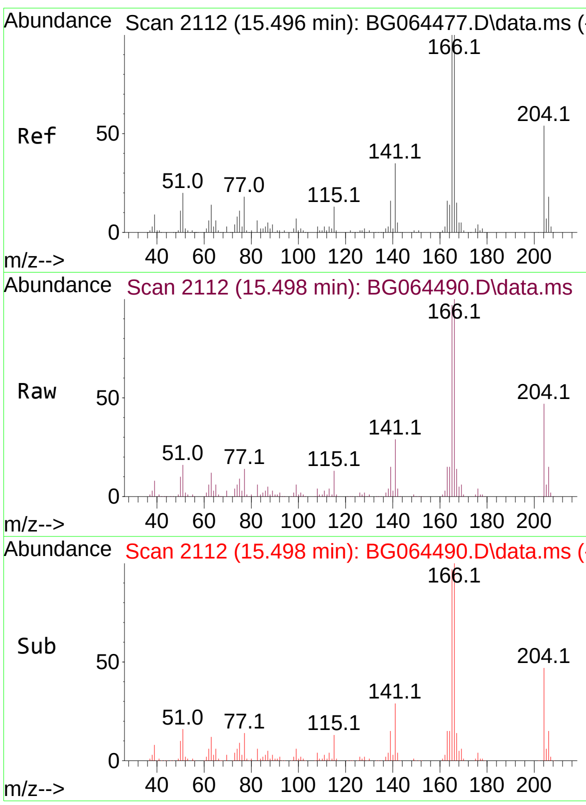
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 51.4 | 40.4 | 60.6 |
| 89 | 70.8 | 57.3 | 85.9 |
| 182 | 2.3 | 1.9 | 2.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

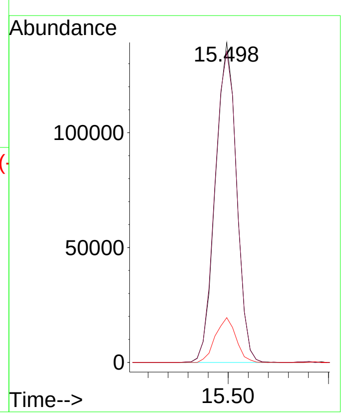
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

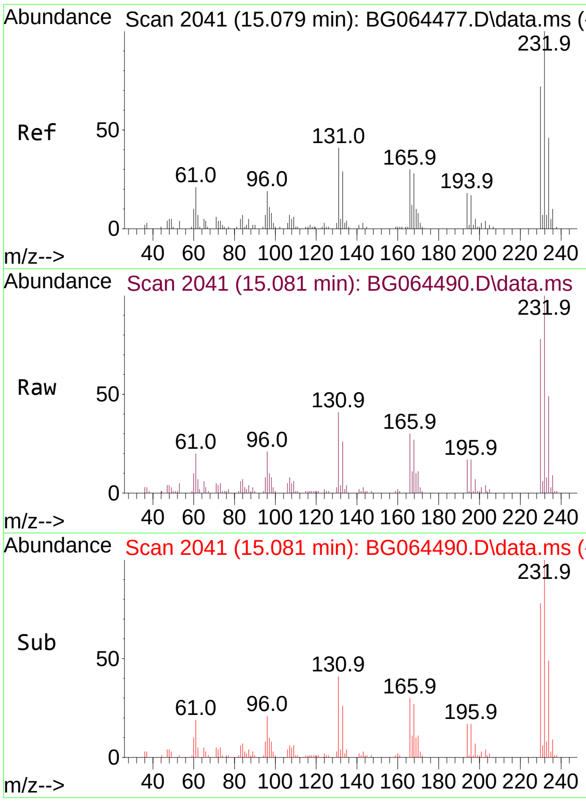



#58
Fluorene
Concen: 50.261 ng
RT: 15.498 min Scan# 2112
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:166 Resp: 204659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.2 | 79.8 | 119.6 |
| 167 | 14.0 | 11.7 | 17.5 |






#59
2,3,4,6-Tetrachlorophenol
Concen: 54.327 ng
RT: 15.081 min Scan# 20
Delta R.T. 0.010 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

Tgt Ion:232 Resp: 68433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 42.0 | 35.0 | 52.4 |
| 130 | 3.0 | 2.0 | 3.0 |
| 166 | 30.2 | 23.8 | 35.6 |

**Manual Integrations**
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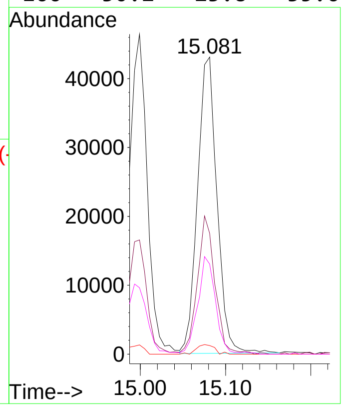
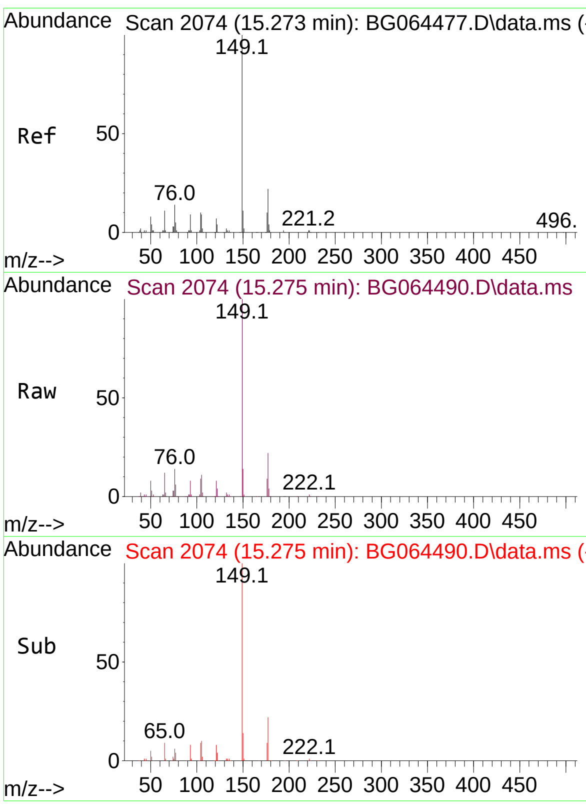
Supervised By :Jagrut Upadhyay 10/06/2025

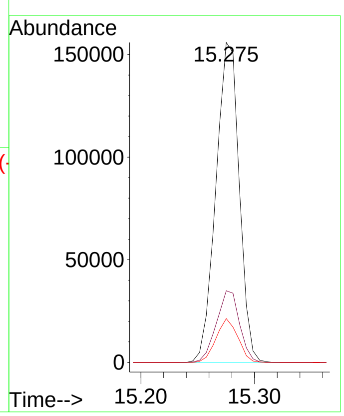



#60
Diethylphthalate
Concen: 49.452 ng
RT: 15.275 min Scan# 2074
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:149 Resp: 222549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.4 | 17.4 | 26.0 |
| 150 | 13.7 | 9.1 | 13.7# |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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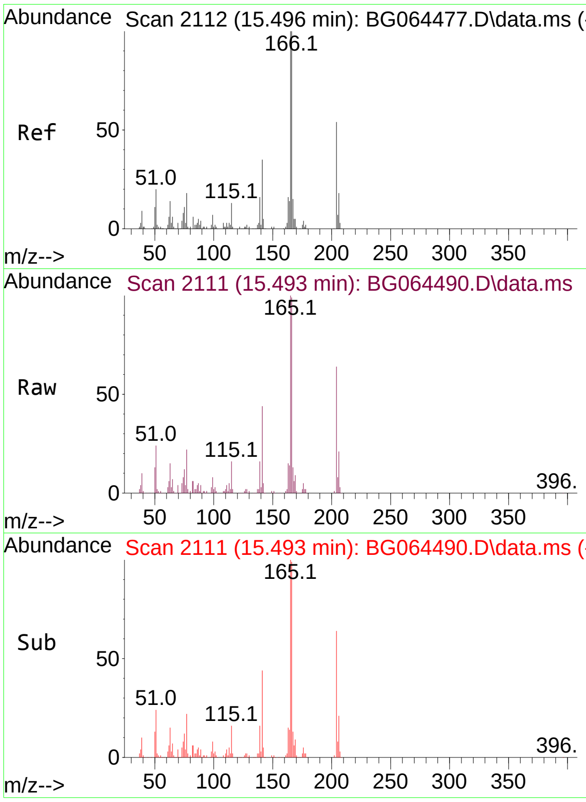
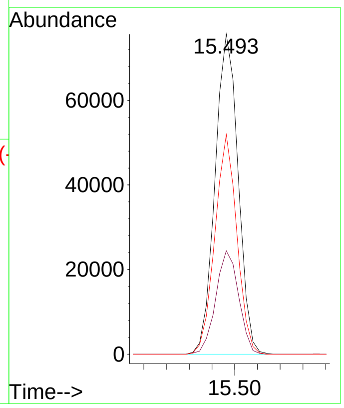
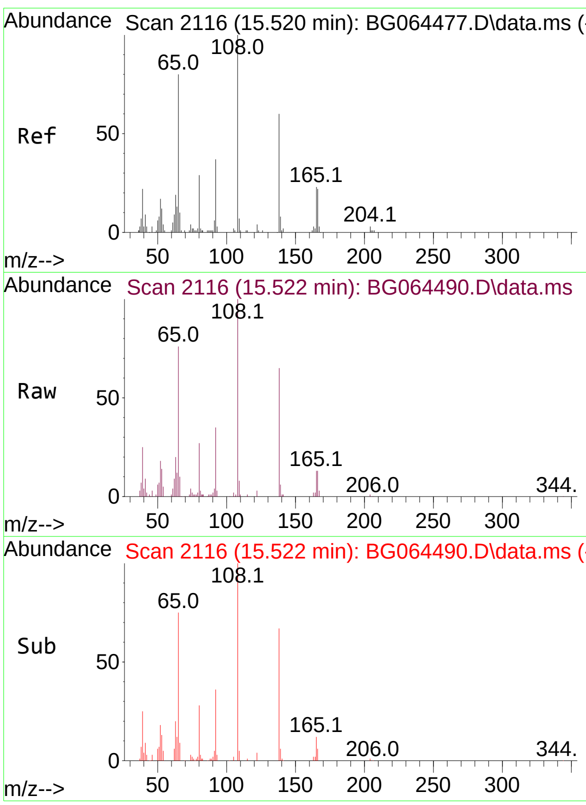
Supervised By :Jagrut Upadhyay 10/06/2025

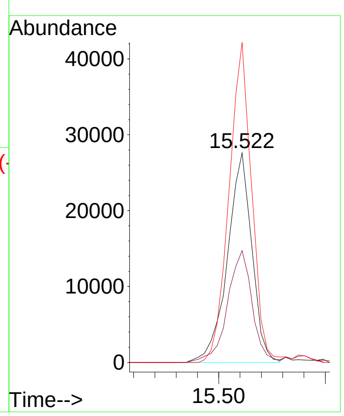


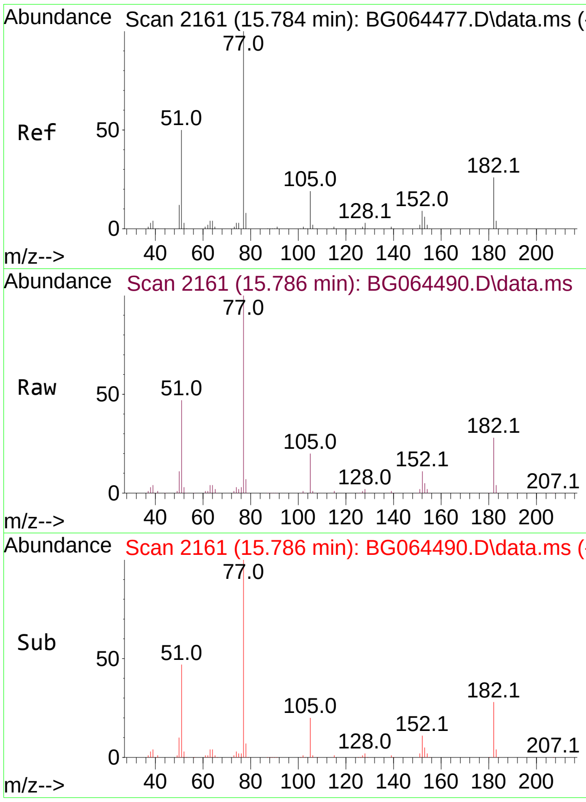

```
#61
4-Chlorophenyl-phenylether
Concen:   48.001 ng
RT:  15.493 min  Scan# 2
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:204 Resp:  10670
Ion  Ratio  Lower  Upper
204  100
206   32.3   27.1   40.7
141   68.6   51.5   77.3
```




```
#62
4-Nitroaniline
Concen:   52.280 ng
RT:  15.522 min  Scan# 2116
Delta R.T.  0.010 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:138 Resp:   43915
Ion  Ratio  Lower  Upper
138  100
 92   53.4   42.3   82.3
108  152.9  147.7  187.7
```






#63
Azobenzene
Concen: 49.872 ng
RT: 15.786 min Scan# 2
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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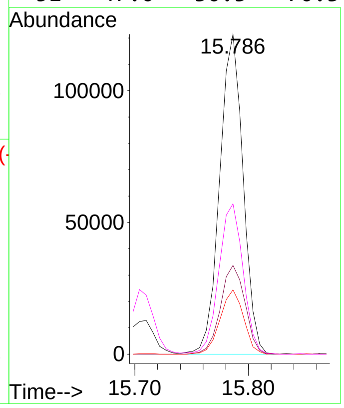
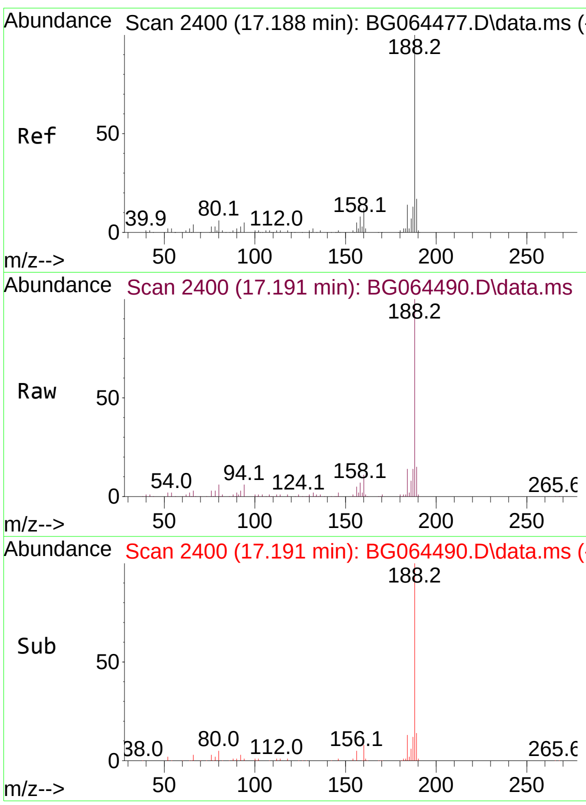
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Tgt Ion: 77 Resp: 17381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 27.7 | 6.3 | 46.3 |
| 105 | 20.1 | 0.0 | 38.7 |
| 51 | 47.0 | 30.3 | 70.3 |

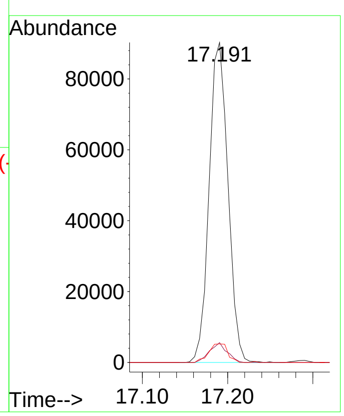



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.191 min Scan# 2400
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:188 Resp: 138632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 6.2 | 3.7 | 5.5# |
| 80 | 5.8 | 4.5 | 6.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
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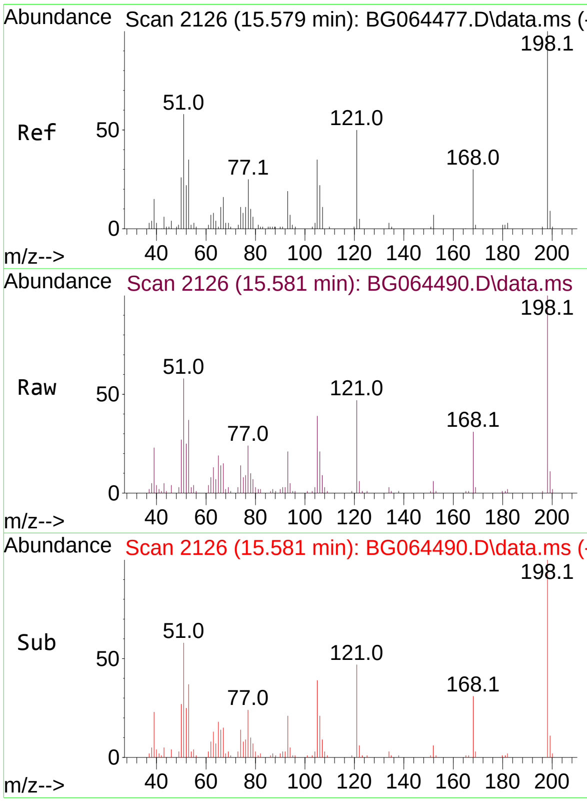
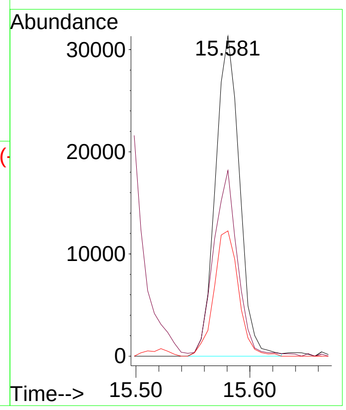
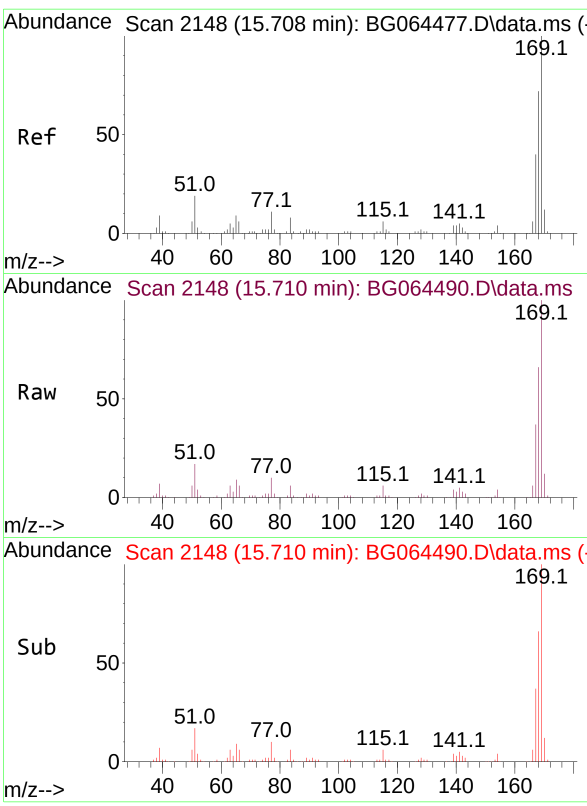



#65
4,6-Dinitro-2-methylphenol
Concen: 47.921 ng
RT: 15.581 min Scan# 21
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:198 Resp: 4625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 58.0 | 39.0 | 79.0 |
| 105 | 39.1 | 15.8 | 55.8 |

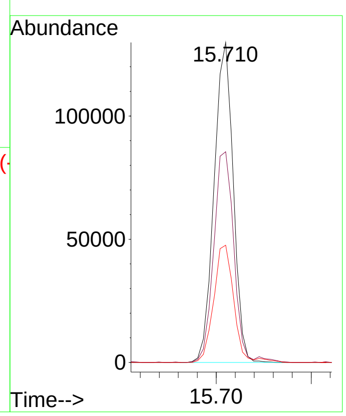


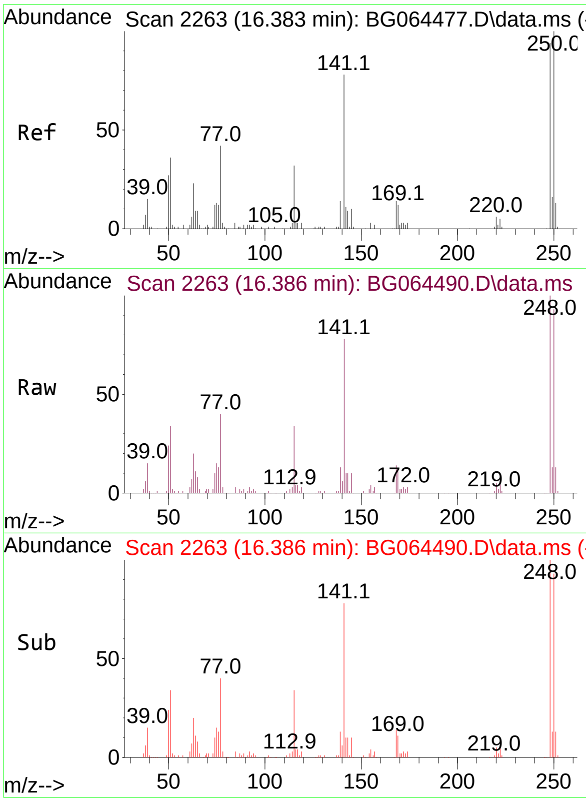




#66
n-Nitrosodiphenylamine
Concen: 49.254 ng
RT: 15.710 min Scan# 2148
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:169 Resp: 182340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 65.8 | 57.8 | 86.6 |
| 167 | 36.6 | 31.7 | 47.5 |






#67
4-Bromophenyl-phenylether
Concen: 48.089 ng
RT: 16.386 min Scan# 2
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

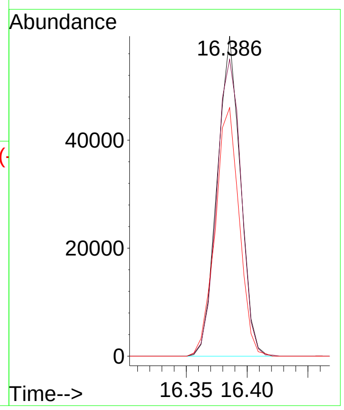
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

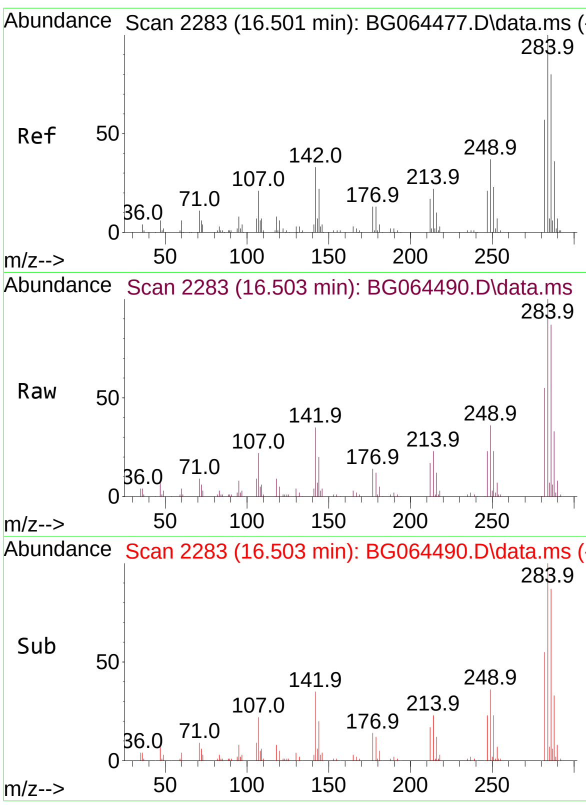
Tgt Ion:248 Resp: 7845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 92.7 | 85.3 | 127.9 |
| 141 | 77.6 | 66.2 | 99.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

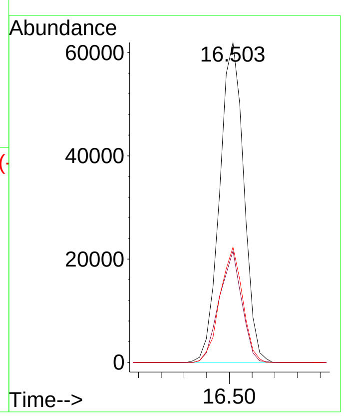



#68
Hexachlorobenzene
Concen: 48.936 ng
RT: 16.503 min Scan# 2283
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:284 Resp: 91352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.9 | 26.2 | 39.2 |
| 249 | 36.0 | 29.4 | 44.0 |

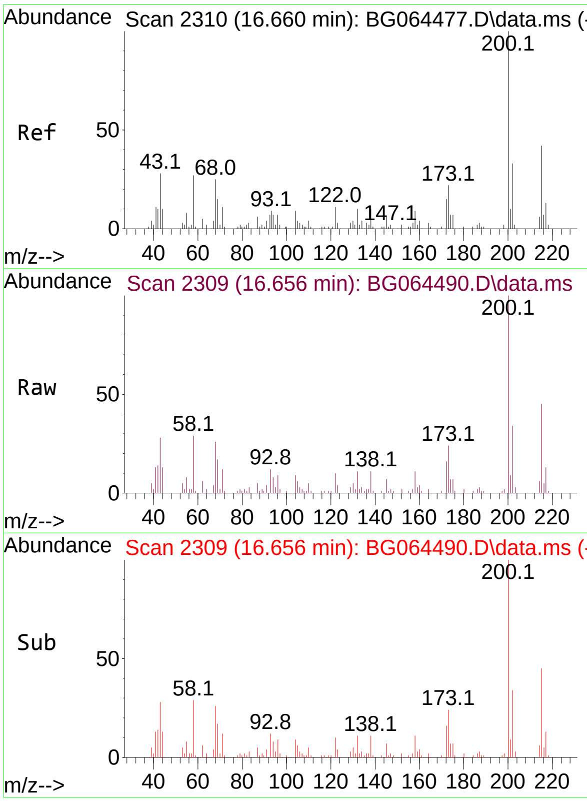


Sample Results: **BG064490.D**

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
**APPROVED**

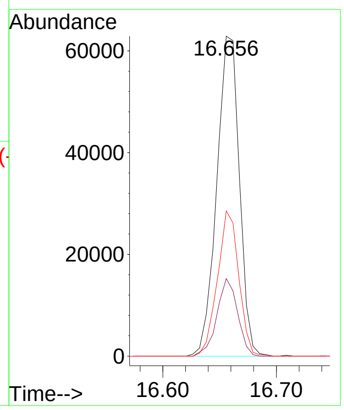
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

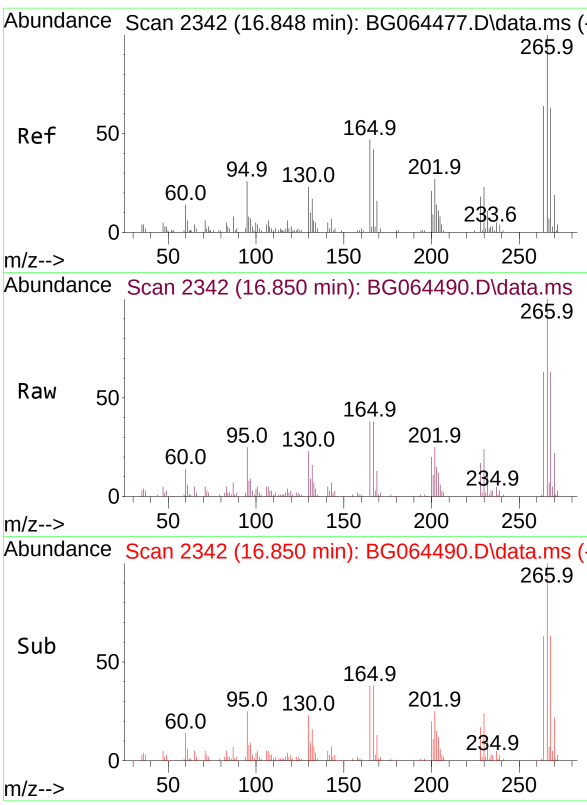



#69
Atrazine
Concen: 52.822 ng
RT: 16.656 min Scan# 2
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:200 Resp: 87001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.2 | 2.5 | 42.5 |
| 215 | 45.4 | 21.5 | 61.5 |

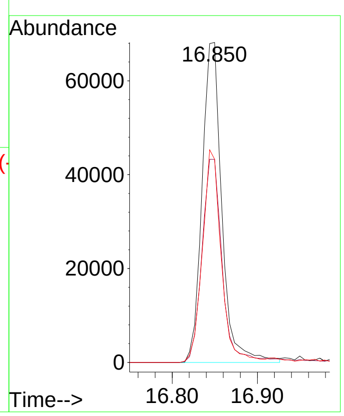



#70
Pentachlorophenol
Concen: 100.712 ng
RT: 16.850 min Scan# 2342
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:266 Resp: 109925

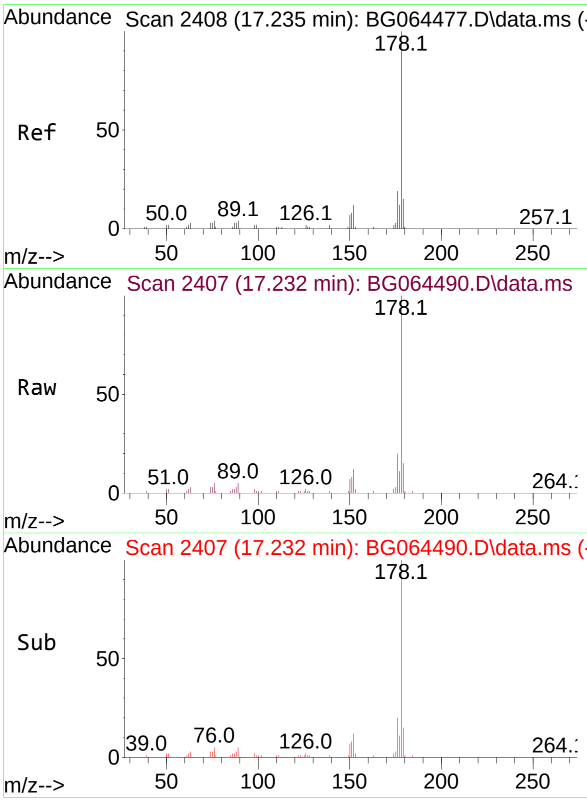
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.4 | 50.6 | 75.8 |
| 264 | 63.5 | 51.2 | 76.8 |



**Instrument :** BNA_G
**ClientSampleId :** PB169973BSD

**Manual Integrations APPROVED**

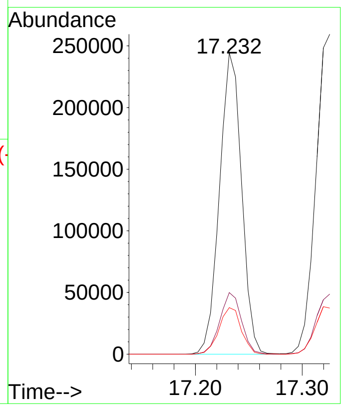
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

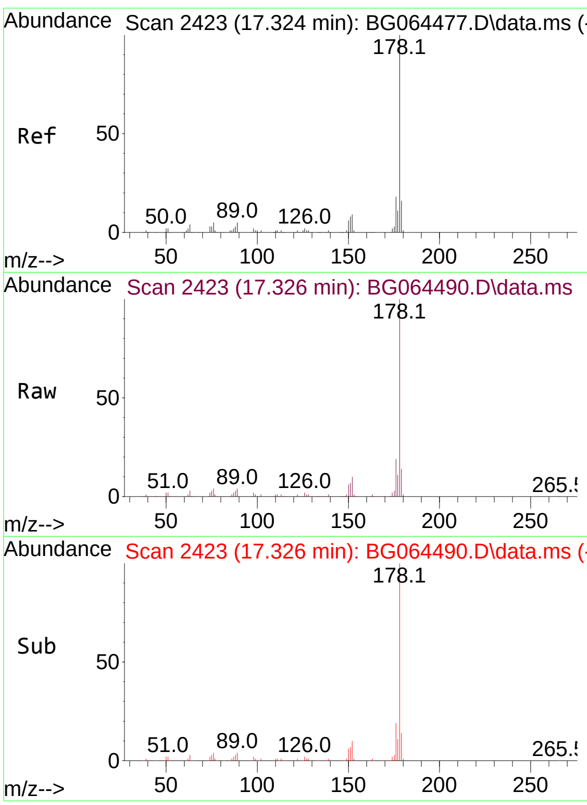



#71
Phenanthrene
Concen: 48.603 ng
RT: 17.232 min Scan# 24
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:178 Resp: 35236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 15.2 | 22.8 |
| 179 | 15.4 | 11.8 | 17.6 |

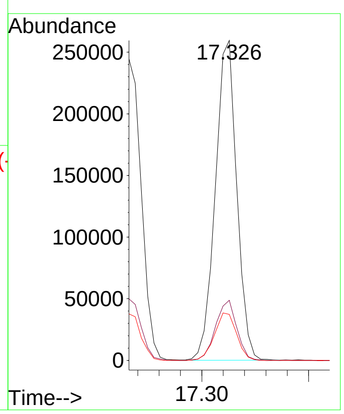



#72
Anthracene
Concen: 49.895 ng
RT: 17.326 min Scan# 2423
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:178 Resp: 362889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.6 | 21.8 |
| 179 | 14.4 | 12.5 | 18.7 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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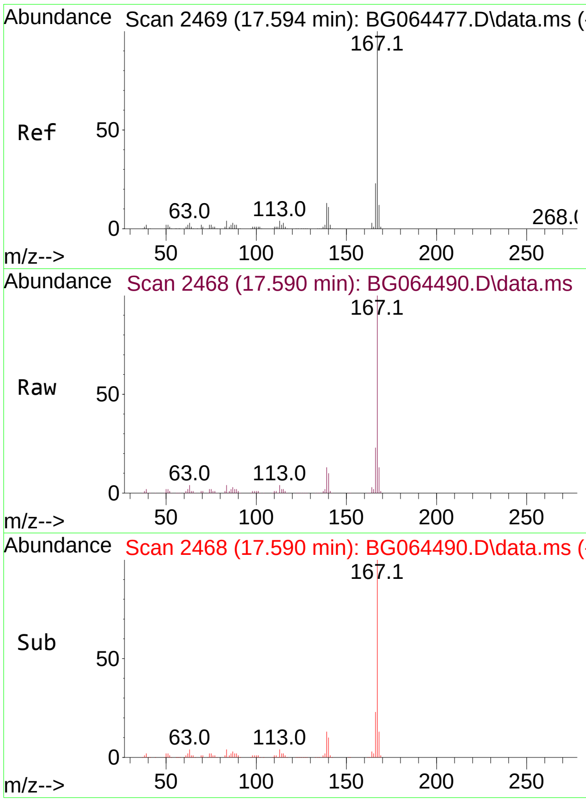
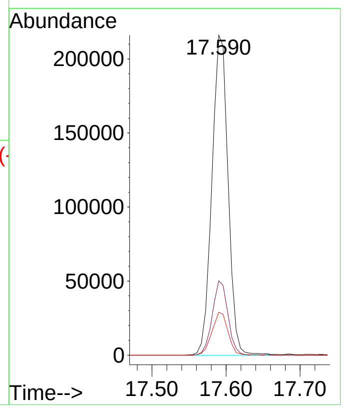
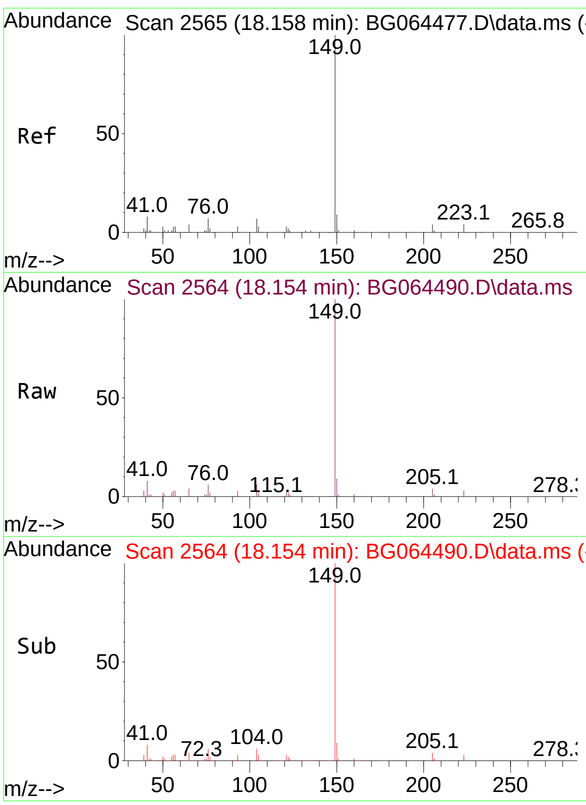
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

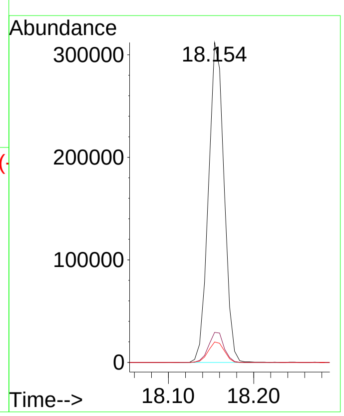


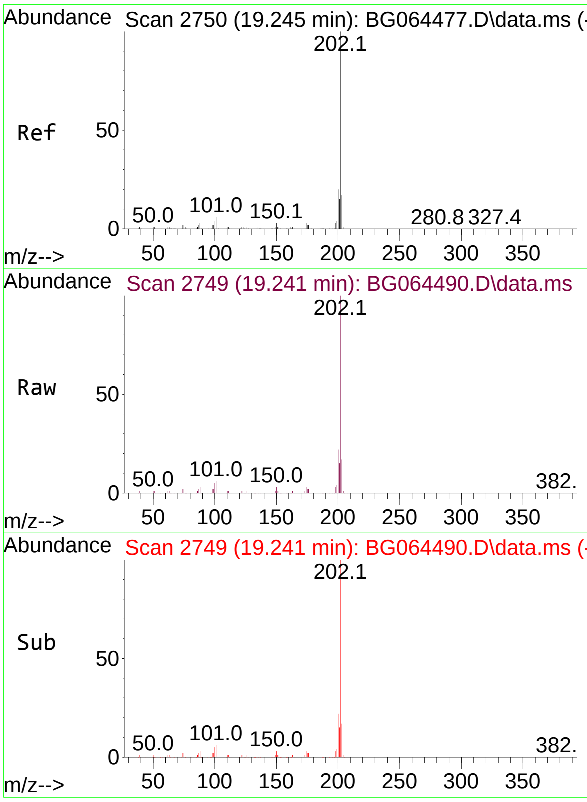

```
#73
Carbazole
Concen:   52.082 ng
RT:  17.590 min   Scan# 24
Delta R.T.   -0.001 min
Lab File:    BG064490.D
Acq:  3 Oct 2025   16:57

Tgt Ion:167 Resp:  32742
Ion  Ratio  Lower  Upper
167  100
166   23.2   18.6   27.8
139   13.4   10.2   15.4
```




```
#74
Di-n-butylphthalate
Concen:   51.730 ng
RT:  18.154 min   Scan# 2564
Delta R.T.   -0.001 min
Lab File:    BG064490.D
Acq:  3 Oct 2025   16:57

Tgt Ion:149 Resp:   396998
Ion  Ratio  Lower  Upper
149  100
150    9.4    7.4   11.2
104    6.4    5.3    7.9
```





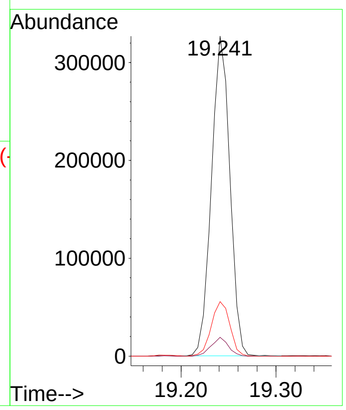

#75
Fluoranthene
Concen: 50.952 ng
RT: 19.241 min Scan# 2
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

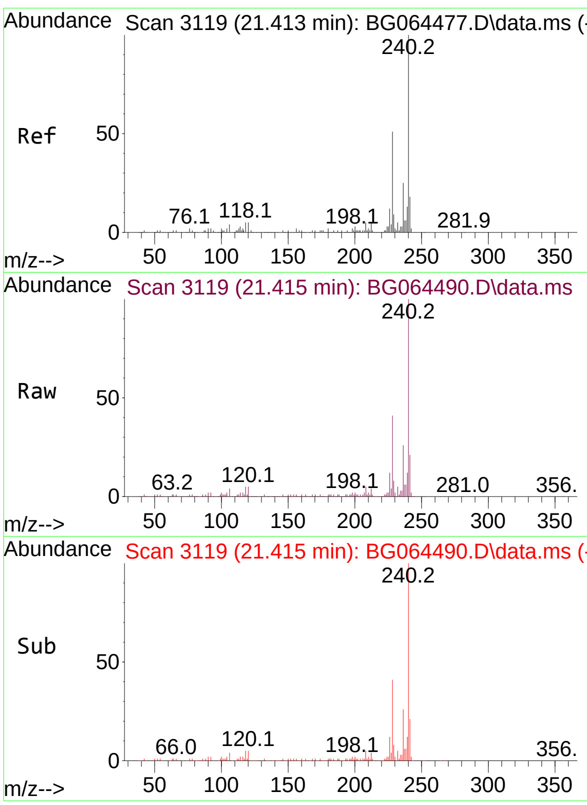
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

Tgt Ion:202 Resp: 441298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.9 | 0.0 | 25.7 |
| 203 | 17.0 | 0.0 | 36.6 |

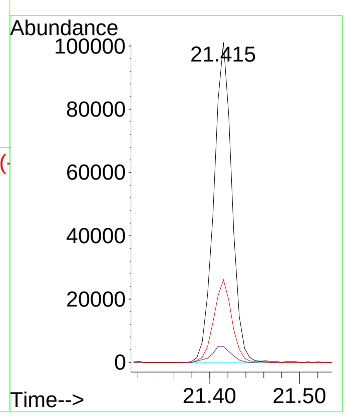


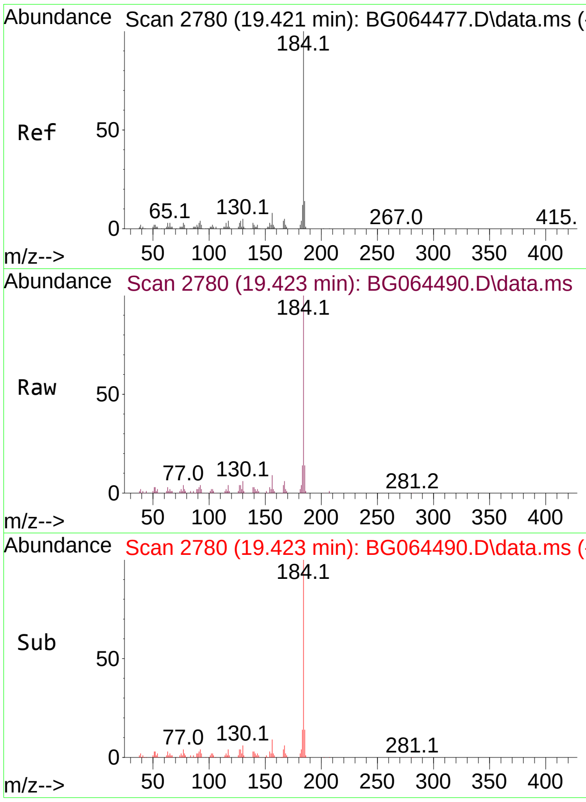

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.415 min Scan# 3119
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:240 Resp: 141515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.0 | 4.3 | 6.5 |
| 236 | 25.8 | 20.4 | 30.6 |



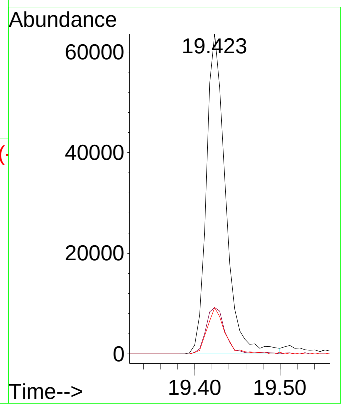
Sample Results: **BG064490.D**




#77
Benzidine
Concen:   28.405 ng
RT:  19.423 min  Scan# 2
Delta R.T.  -0.002 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:184 Resp:  10002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.5 | 10.9 | 16.3 |
| 183 | 14.4 | 9.8 | 14.6 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
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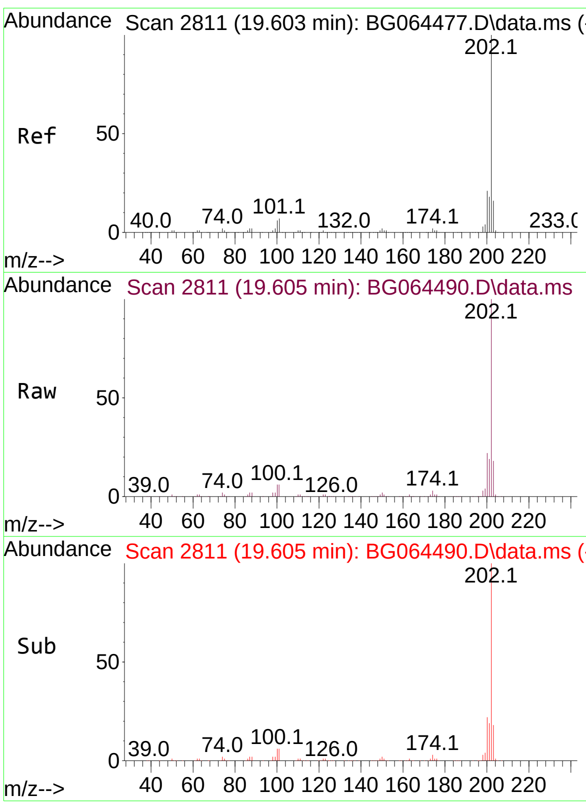
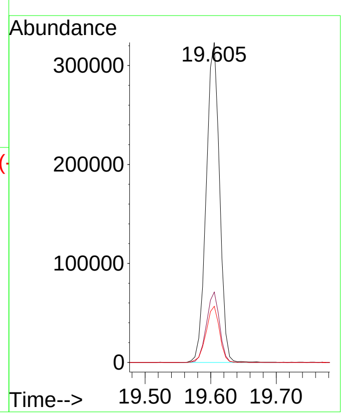
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#78
Pyrene
Concen:   49.536 ng
RT:  19.605 min  Scan# 2811
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:202 Resp:  454934

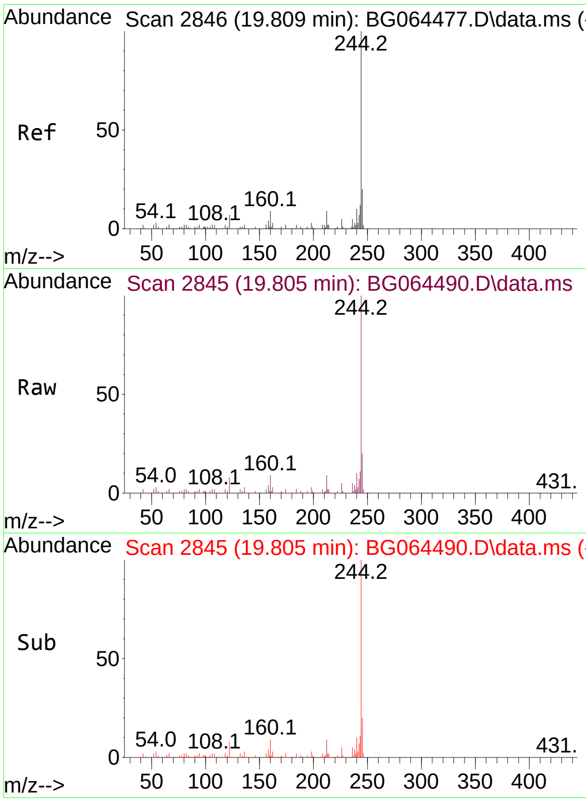
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.0 | 17.0 | 25.4 |
| 203 | 17.5 | 13.0 | 19.4 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

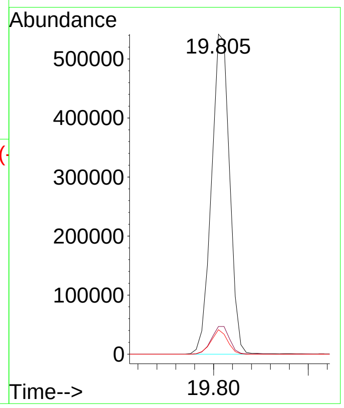
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

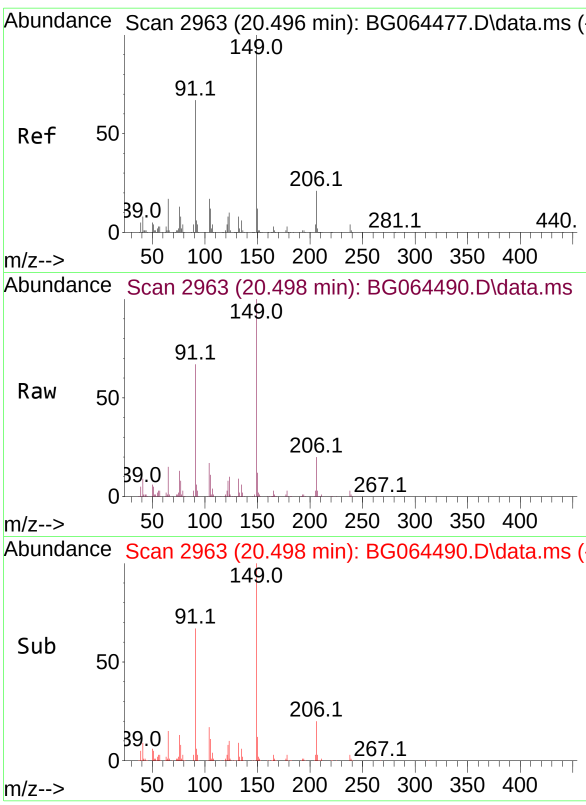



#79
Terphenyl-d14
Concen: 96.533 ng
RT: 19.805 min Scan# 28
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:244 Resp: 72184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.6 | 7.0 | 10.6 |
| 122 | 7.6 | 5.6 | 8.4 |

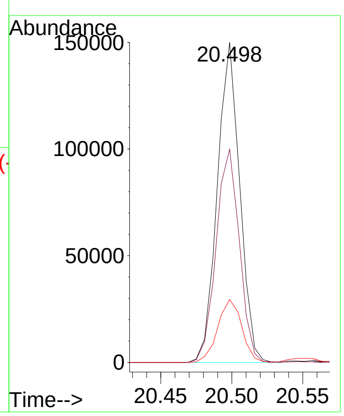



#80
Butylbenzylphthalate
Concen: 50.742 ng
RT: 20.498 min Scan# 2963
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:149 Resp: 165196

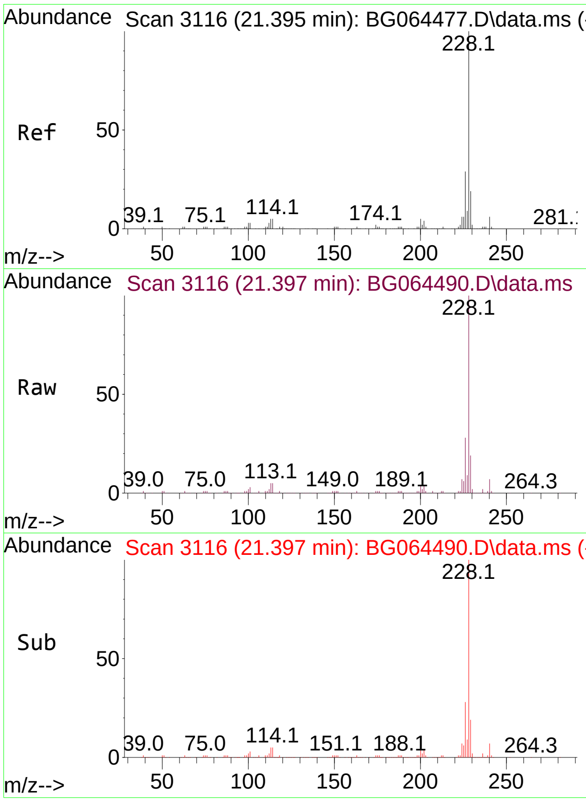
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 66.6 | 53.7 | 80.5 |
| 206 | 19.7 | 16.6 | 24.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

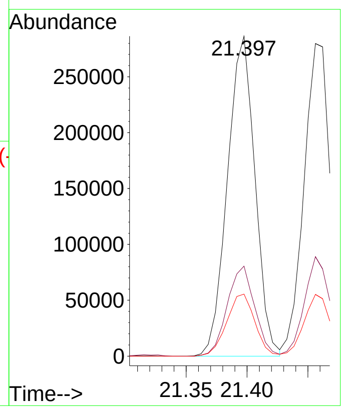
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

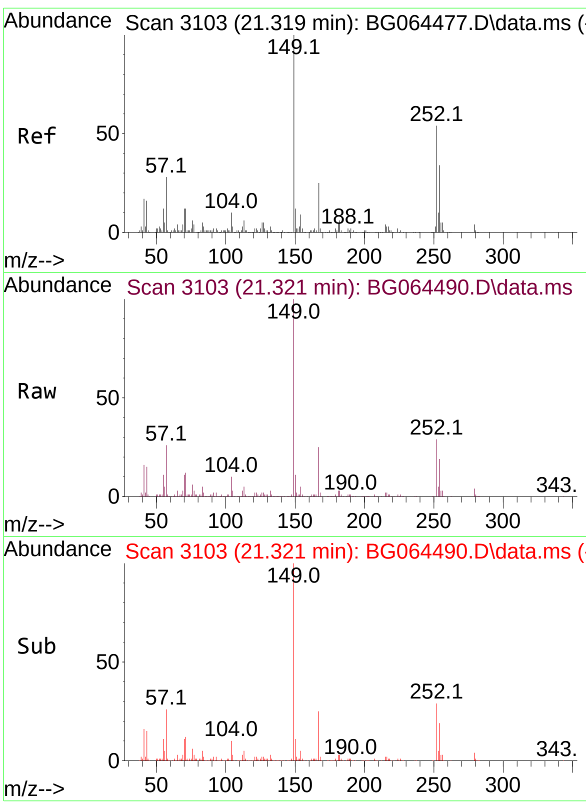



#81
Benzo(a)anthracene
Concen: 49.985 ng
RT: 21.397 min Scan# 31
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:228 Resp: 45165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.8 | 34.2 |
| 229 | 19.4 | 15.2 | 22.8 |

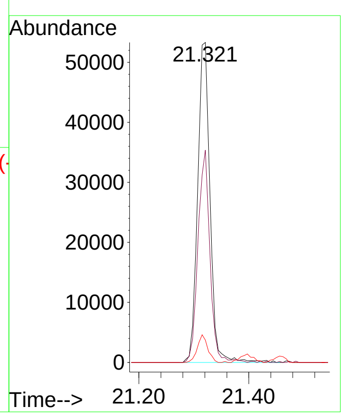



#82
3,3'-Dichlorobenzidine
Concen: 27.260 ng
RT: 21.321 min Scan# 3103
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:252 Resp: 83367

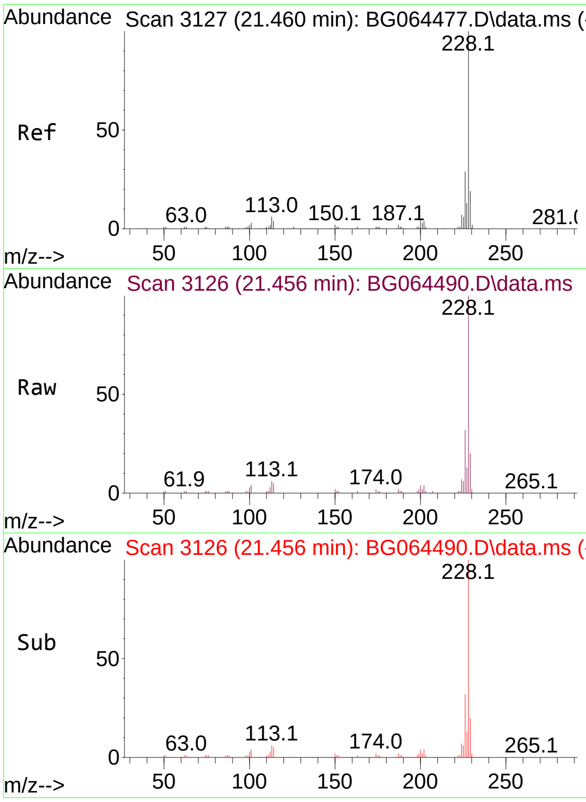
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 66.3 | 50.5 | 75.7 |
| 126 | 7.0 | 7.1 | 10.7# |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations APPROVED**

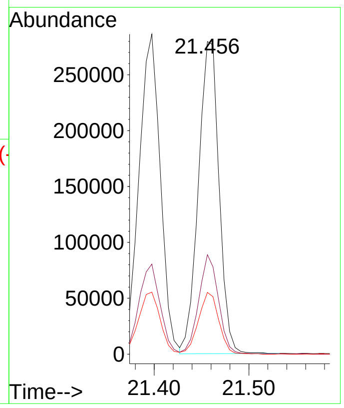
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

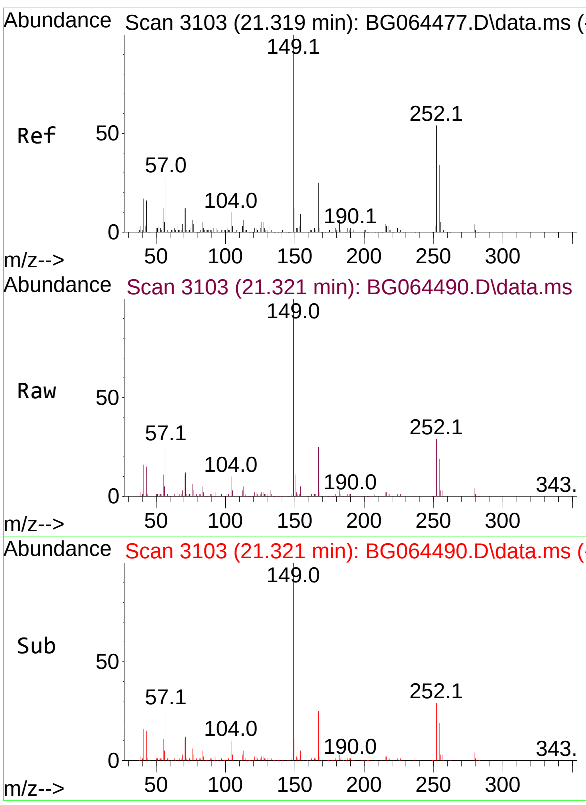



#83
Chrysene
Concen: 49.559 ng
RT: 21.456 min Scan# 31
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:228 Resp: 42468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.8 | 22.8 | 34.2 |
| 229 | 19.7 | 15.4 | 23.0 |

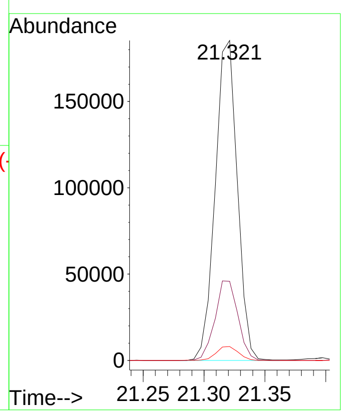


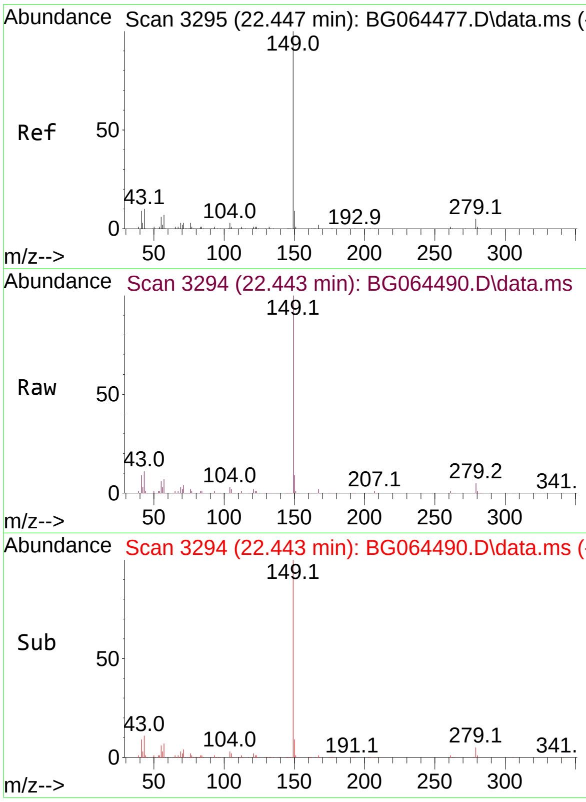




#84
Bis(2-ethylhexyl)phthalate
Concen: 50.979 ng
RT: 21.321 min Scan# 3103
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:149 Resp: 234171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 19.7 | 29.5 |
| 279 | 4.3 | 3.4 | 5.2 |






#85
Di-n-octyl phthalate
Concen: 50.334 ng
RT: 22.443 min Scan# 3
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

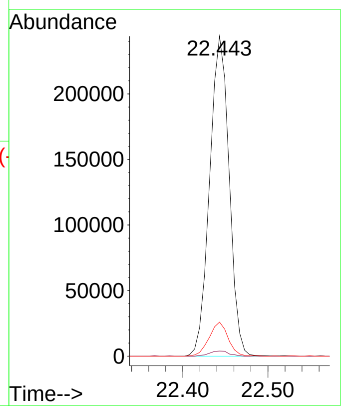
Tgt Ion:149 Resp: 38858

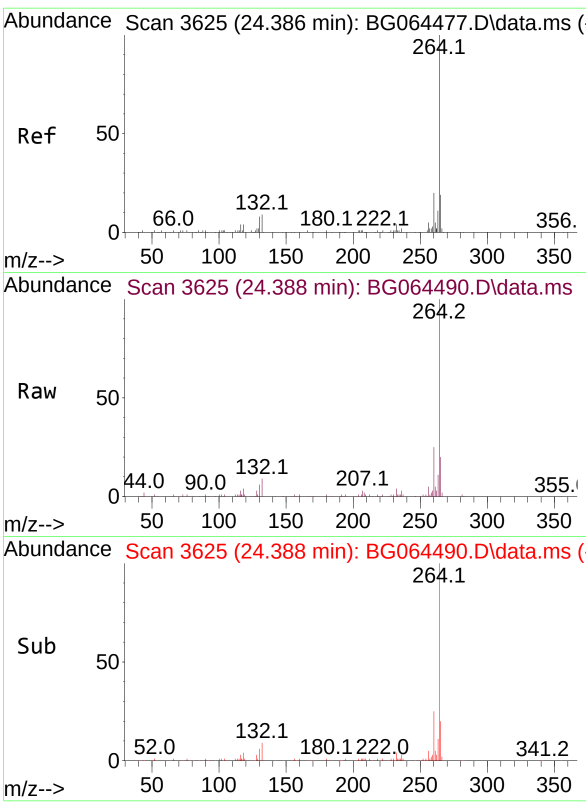
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 10.3 | 7.9 | 11.9 |

**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

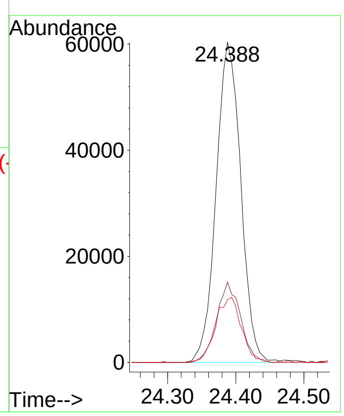



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.388 min Scan# 3625
Delta R.T. -0.001 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:264 Resp: 151583

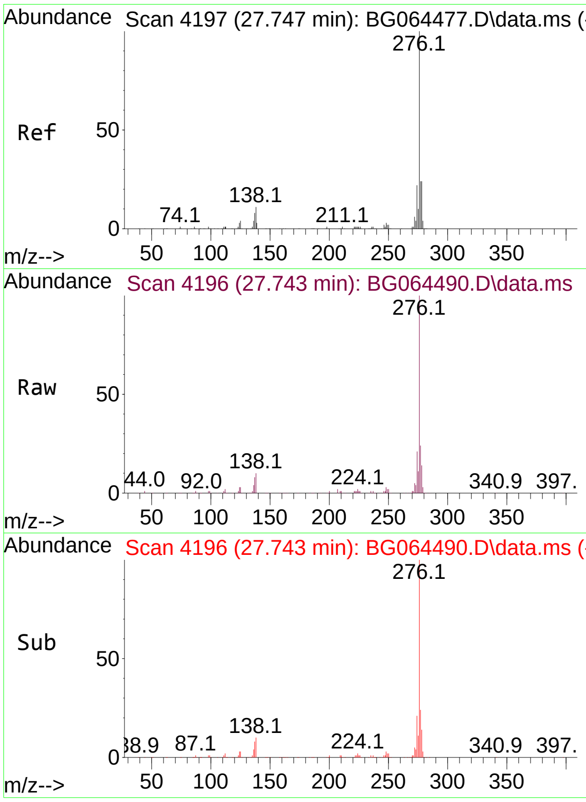
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.1 | 16.2 | 24.4# |
| 265 | 19.6 | 15.0 | 22.4 |



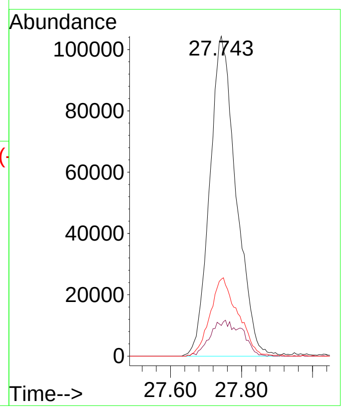
**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

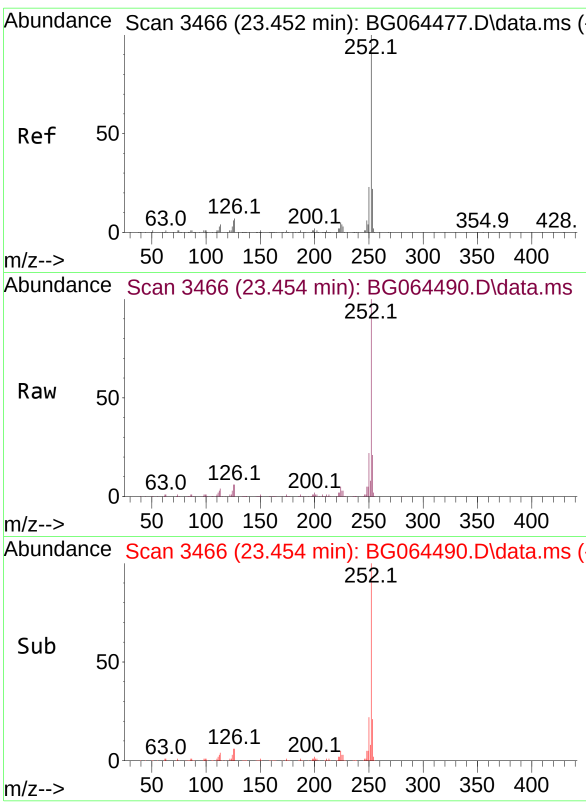
**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

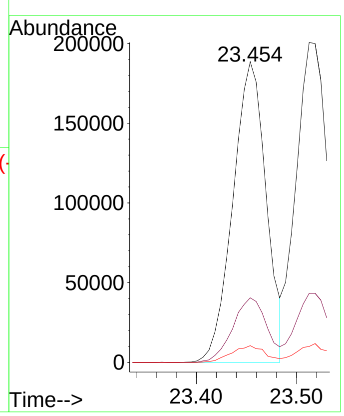


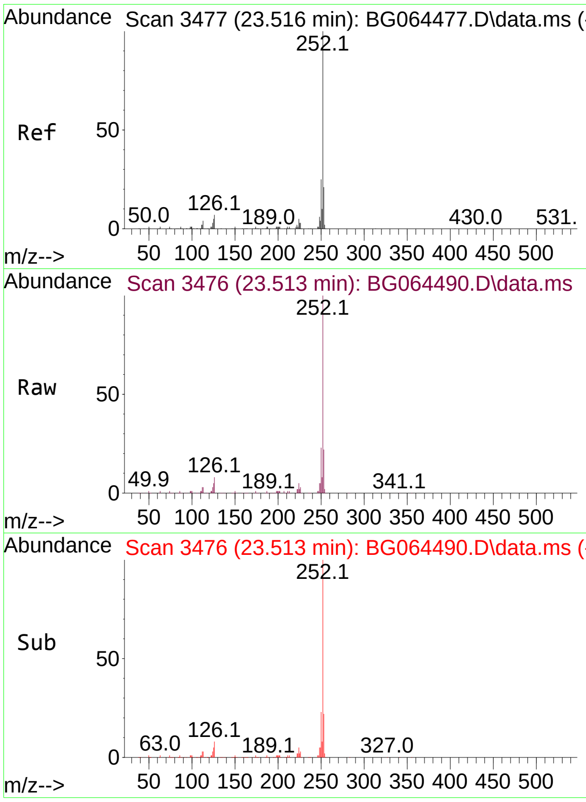

```
#87
Indeno(1,2,3-cd)pyrene
Concen:   51.237 ng
RT:  27.743 min  Scan# 41
Delta R.T.  0.010 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:276 Resp:  540606
Ion  Ratio  Lower  Upper
276  100
138    9.8   10.8   16.2#
277   25.6   20.3   30.5
```




```
#88
Benzo(b)fluoranthene
Concen:   50.425 ng
RT:  23.454 min  Scan# 3466
Delta R.T.  0.005 min
Lab File:   BG064490.D
Acq:  3 Oct 2025  16:57

Tgt Ion:252 Resp:  434847
Ion  Ratio  Lower  Upper
252  100
253   21.5   17.5   26.3
125    5.6    4.5    6.7
```

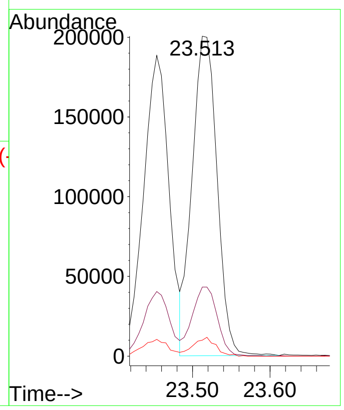





#89
Benzo(k)fluoranthene
Concen: 51.716 ng
RT: 23.513 min Scan# 34
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

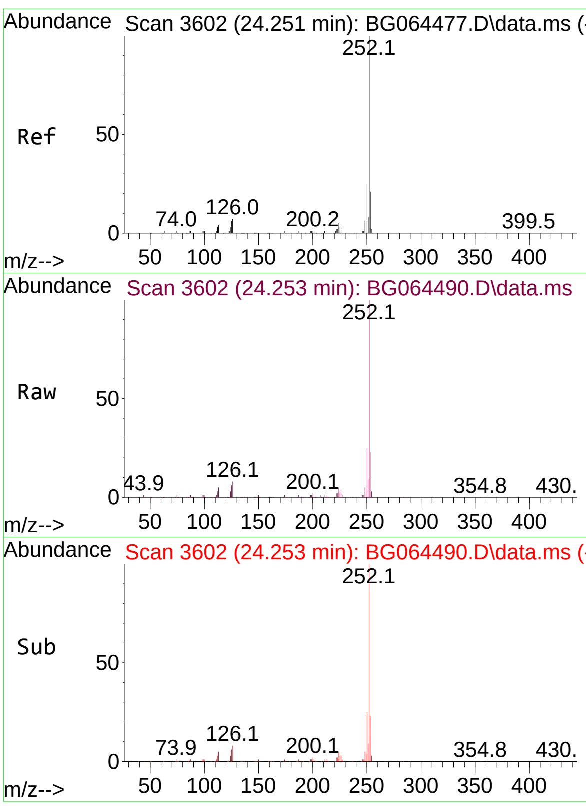
Tgt Ion:252 Resp: 449174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.4 | 26.2 |
| 125 | 5.0 | 4.0 | 6.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

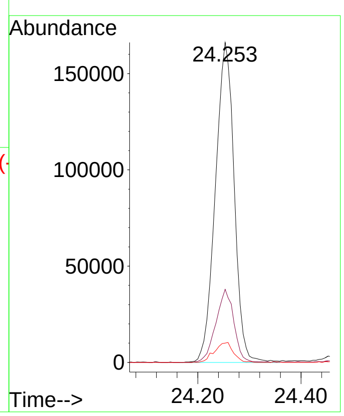
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025




#90
Benzo(a)pyrene
Concen: 53.252 ng
RT: 24.253 min Scan# 3602
Delta R.T. 0.005 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

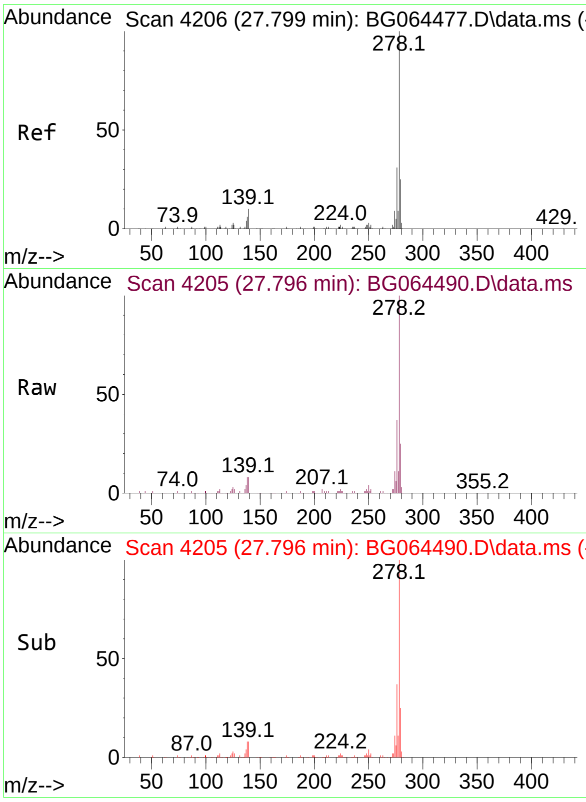
Tgt Ion:252 Resp: 423237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 17.1 | 25.7 |
| 125 | 6.0 | 4.6 | 6.8 |



**Instrument :**
BNA_G
**ClientSampleId :**
PB169973BSD

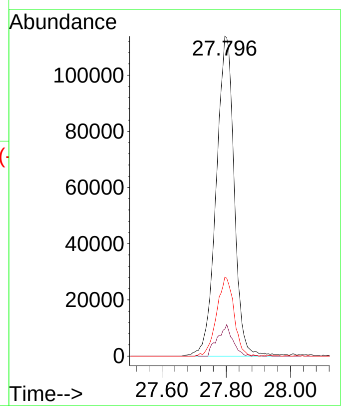
**Manual Integrations**
**APPROVED**
Reviewed By :Rahul Chavli 10/06/2025
Supervised By :Jagrut Upadhyay 10/06/2025

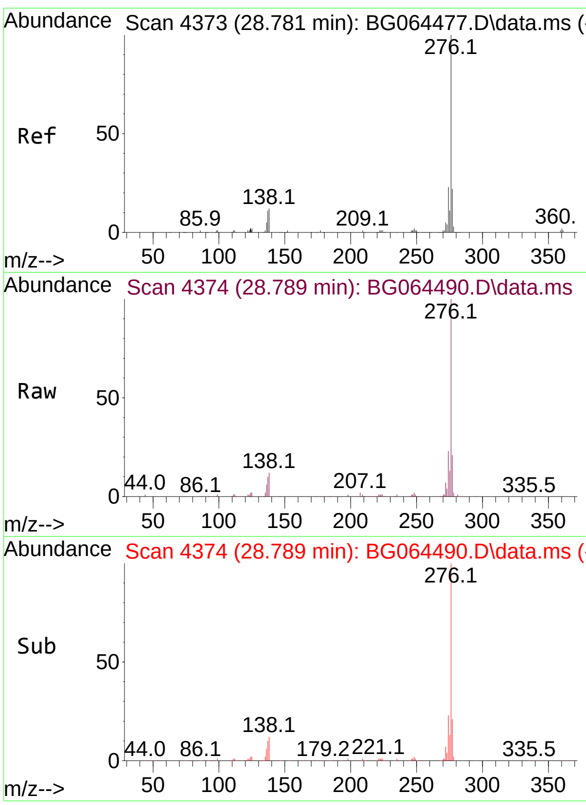



#91
Dibenzo(a,h)anthracene
Concen: 52.434 ng
RT: 27.796 min Scan# 4
Delta R.T. 0.016 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:278 Resp: 44242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 8.4 | 8.2 | 12.2 |
| 279 | 24.7 | 19.6 | 29.4 |

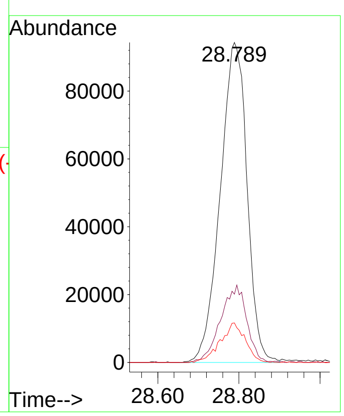



#92
Benzo(g,h,i)perylene
Concen: 52.749 ng
RT: 28.789 min Scan# 4374
Delta R.T. 0.022 min
Lab File: BG064490.D
Acq: 3 Oct 2025 16:57

Tgt Ion:276 Resp: 432535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 21.3 | 17.8 | 26.6 |
| 138 | 12.3 | 9.4 | 14.0 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Manual Integration Report

| Sequence: | BG100225 | Instrument | BNA_g |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BG064474.D | Anthracene | Rahul | 10/3/2025 8:37:57 AM | Jagrut | 10/3/2025 3:25:00 PM | Peak Integrated by Software |
| SSTDICC005 | BG064474.D | Benzo(b)fluoranthene | Rahul | 10/3/2025 8:37:57 AM | Jagrut | 10/3/2025 3:25:00 PM | Peak Integrated by Software |
| SSTDICC020 | BG064476.D | 1-Methylnaphthalene | Rahul | 10/3/2025 8:38:04 AM | Jagrut | 10/3/2025 3:25:05 PM | Peak Integrated by Software |
| SSTDICC020 | BG064476.D | Benzaldehyde | Rahul | 10/3/2025 8:38:04 AM | Jagrut | 10/3/2025 3:25:05 PM | Peak Integrated by Software |
| SSTDICC020 | BG064476.D | Benzoic acid | Rahul | 10/3/2025 8:38:04 AM | Jagrut | 10/3/2025 3:25:05 PM | Peak Integrated by Software |
| SSTDICCC040 | BG064477.D | Benzaldehyde | Rahul | 10/3/2025 8:38:08 AM | Jagrut | 10/3/2025 3:25:08 PM | Peak Integrated by Software |
| SSTDICCC040 | BG064477.D | Benzoic acid | Rahul | 10/3/2025 8:38:08 AM | Jagrut | 10/3/2025 3:25:08 PM | Peak Integrated by Software |
| SSTDICC050 | BG064478.D | Benzoic acid | Rahul | 10/3/2025 8:38:10 AM | Jagrut | 10/3/2025 3:25:09 PM | Peak Integrated by Software |
| SSTDICC060 | BG064479.D | Benzoic acid | Rahul | 10/3/2025 8:38:13 AM | Jagrut | 10/3/2025 3:25:12 PM | Peak Integrated by Software |
| SSTDICC080 | BG064480.D | Benzoic acid | Rahul | 10/3/2025 8:38:15 AM | Jagrut | 10/3/2025 3:25:14 PM | Peak Integrated by Software |
| SSTDICC010 | BG064481.D | Benzoic acid | Rahul | 10/3/2025 8:38:18 AM | Jagrut | 10/3/2025 3:25:20 PM | Peak Integrated by Software |
| SSTDICV040 | BG064482.D | Benzoic acid | Rahul | 10/3/2025 8:38:21 AM | Jagrut | 10/3/2025 3:25:22 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BG100225 | Instrument | BNA_g |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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# Manual Integration Report

| Sequence: | BG100325 | Instrument | BNA_g |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BG064485.D | 1-Methylnaphthalene | Rahul | 10/6/2025 4:14:13 PM | Jagrut | 10/6/2025 4:23:08 PM | Peak Integrated by Software |
| SSTDCCC040 | BG064485.D | Benzaldehyde | Rahul | 10/6/2025 4:14:13 PM | Jagrut | 10/6/2025 4:23:08 PM | Peak Integrated by Software |
| SSTDCCC040 | BG064485.D | Benzoic acid | Rahul | 10/6/2025 4:14:13 PM | Jagrut | 10/6/2025 4:23:08 PM | Peak Integrated by Software |
| PB169973BS | BG064489.D | 2,3,4,6-Tetrachlorophenol | Rahul | 10/6/2025 4:14:18 PM | Jagrut | 10/6/2025 4:23:13 PM | Peak Integrated by Software |
| PB169973BS | BG064489.D | Benzoic acid | Rahul | 10/6/2025 4:14:18 PM | Jagrut | 10/6/2025 4:23:13 PM | Peak Integrated by Software |
| PB169973BS | BG064489.D | Caprolactam | Rahul | 10/6/2025 4:14:18 PM | Jagrut | 10/6/2025 4:23:13 PM | Peak Integrated by Software |
| PB169973BSD | BG064490.D | Benzoic acid | Rahul | 10/6/2025 4:14:20 PM | Jagrut | 10/6/2025 4:23:34 PM | Peak Integrated by Software |
| PB169973BSD | BG064490.D | Caprolactam | Rahul | 10/6/2025 4:14:20 PM | Jagrut | 10/6/2025 4:23:34 PM | Peak Integrated by Software |

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Fax : 908 789 8922

**Instrument ID: BNA_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # BG100225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 10/3/2025 8:38:44 AM | | |
| Supervise By | Jagrut | Supervise On | 10/3/2025 3:25:38 PM | | |
| SubDirectory | BG100225 | HP Acquire Method | BNA_G | HP Processing Method | bg100225 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13176,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BG064472.D | 2 Oct 2025 8:21 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BG064473.D | 2 Oct 2025 9:01 | RC/JU | Ok |
| 3 | SSTDICC005 | BG064474.D | 2 Oct 2025 9:42 | RC/JU | Ok,M |
| 4 | SSTDICC010 | BG064475.D | 2 Oct 2025 10:53 | RC/JU | Not Ok |
| 5 | SSTDICC020 | BG064476.D | 2 Oct 2025 11:33 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BG064477.D | 2 Oct 2025 12:14 | RC/JU | Ok,M |
| 7 | SSTDICC050 | BG064478.D | 2 Oct 2025 12:55 | RC/JU | Ok,M |
| 8 | SSTDICC060 | BG064479.D | 2 Oct 2025 13:35 | RC/JU | Ok,M |
| 9 | SSTDICC080 | BG064480.D | 2 Oct 2025 14:16 | RC/JU | Ok,M |
| 10 | SSTDICC010 | BG064481.D | 2 Oct 2025 15:49 | RC/JU | Ok,M |
| 11 | SSTDICV040 | BG064482.D | 2 Oct 2025 18:09 | RC/JU | Ok,M |
| 12 | PB169936BL | BG064483.D | 2 Oct 2025 18:50 | RC/JU | Not Ok |

M : Manual Integration

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: BNA_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # BG100325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 10/6/2025 4:14:36 PM | | |
| Supervise By | Jagrut | Supervise On | 10/6/2025 4:23:45 PM | | |
| SubDirectory | BG100325 | HP Acquire Method | BNA_G | HP Processing Method | bg100225 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13177,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BG064484.D | 3 Oct 2025 12:52 | RC/JU | Ok |
| 2 | SSTDCCC040 | BG064485.D | 3 Oct 2025 13:33 | RC/JU | Ok,M |
| 3 | PB169969BL | BG064486.D | 3 Oct 2025 14:13 | RC/JU | Ok |
| 4 | PB169969BS | BG064487.D | 3 Oct 2025 14:54 | RC/JU | Ok,M |
| 5 | PB169973BL | BG064488.D | 3 Oct 2025 15:35 | RC/JU | Ok |
| 6 | PB169973BS | BG064489.D | 3 Oct 2025 16:16 | RC/JU | Ok,M |
| 7 | PB169973BSD | BG064490.D | 3 Oct 2025 16:57 | RC/JU | Ok,M |
| 8 | Q3263-01 | BG064491.D | 3 Oct 2025 17:38 | RC/JU | Ok |
| 9 | Q3263-02 | BG064492.D | 3 Oct 2025 18:19 | RC/JU | Ok |
| 10 | Q3273-01 | BG064493.D | 3 Oct 2025 18:59 | RC/JU | Ok |
| 11 | Q3274-01 | BG064494.D | 3 Oct 2025 19:40 | RC/JU | Ok |
| 12 | Q3272-06 | BG064495.D | 3 Oct 2025 20:21 | RC/JU | Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** BNA_G

## Daily Analysis Runlog For Sequence/QCBatch ID # BG100225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 10/3/2025 8:38:44 AM | | |
| Supervise By | Jagrut | Supervise On | 10/3/2025 3:25:38 PM | | |
| SubDirectory | BG100225 | HP Acquire Method | BNA_G | HP Processing Method | bg100225 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13176,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BG064472.D | 2 Oct 2025 8:21 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BG064473.D | 2 Oct 2025 9:01 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BG064474.D | 2 Oct 2025 9:42 | | RC/JU | Ok,M |
| 4 | SSTDICC010 | SSTDICC010 | BG064475.D | 2 Oct 2025 10:53 | Not Used | RC/JU | Not Ok |
| 5 | SSTDICC020 | SSTDICC020 | BG064476.D | 2 Oct 2025 11:33 | | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BG064477.D | 2 Oct 2025 12:14 | Compound failed in the calibration. #77 | RC/JU | Ok,M |
| 7 | SSTDICC050 | SSTDICC050 | BG064478.D | 2 Oct 2025 12:55 | | RC/JU | Ok,M |
| 8 | SSTDICC060 | SSTDICC060 | BG064479.D | 2 Oct 2025 13:35 | | RC/JU | Ok,M |
| 9 | SSTDICC080 | SSTDICC080 | BG064480.D | 2 Oct 2025 14:16 | | RC/JU | Ok,M |
| 10 | SSTDICC010 | SSTDICC010 | BG064481.D | 2 Oct 2025 15:49 | | RC/JU | Ok,M |
| 11 | SSTDICV040 | ICVBG100225 | BG064482.D | 2 Oct 2025 18:09 | | RC/JU | Ok,M |
| 12 | PB169936BL | PB169936BL | BG064483.D | 2 Oct 2025 18:50 | Surrogate Fail | RC/JU | Not Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** BNA_G

## Daily Analysis Runlog For Sequence/QCBatch ID # BG100325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 10/6/2025 4:14:36 PM | | |
| Supervise By | Jagrut | Supervise On | 10/6/2025 4:23:45 PM | | |
| SubDirectory | BG100325 | HP Acquire Method | BNA_G | HP Processing Method | bg100225 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13177,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BG064484.D | 3 Oct 2025 12:52 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BG064485.D | 3 Oct 2025 13:33 | | RC/JU | Ok,M |
| 3 | PB169969BL | PB169969BL | BG064486.D | 3 Oct 2025 14:13 | | RC/JU | Ok |
| 4 | PB169969BS | PB169969BS | BG064487.D | 3 Oct 2025 14:54 | | RC/JU | Ok,M |
| 5 | PB169973BL | PB169973BL | BG064488.D | 3 Oct 2025 15:35 | | RC/JU | Ok |
| 6 | PB169973BS | PB169973BS | BG064489.D | 3 Oct 2025 16:16 | | RC/JU | Ok,M |
| 7 | PB169973BSD | PB169973BSD | BG064490.D | 3 Oct 2025 16:57 | | RC/JU | Ok,M |
| 8 | Q3263-01 | 251818 | BG064491.D | 3 Oct 2025 17:38 | | RC/JU | Ok |
| 9 | Q3263-02 | 266380 | BG064492.D | 3 Oct 2025 18:19 | | RC/JU | Ok |
| 10 | Q3273-01 | MW1 | BG064493.D | 3 Oct 2025 18:59 | | RC/JU | Ok |
| 11 | Q3274-01 | MW4 | BG064494.D | 3 Oct 2025 19:40 | | RC/JU | Ok |
| 12 | Q3272-06 | RT5417-CONCRETE | BG064495.D | 3 Oct 2025 20:21 | | RC/JU | Ok |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB169973

**SOP ID:** M3510C,3580A-Extraction SVOC-21

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3953

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 4,6,7

**Extraction Start Date :** 10/03/2025

**Extraction Start Time :** 08:35

**Extraction End Date :** 10/03/2025

**Extraction End Time :** 13:45

**Concentration By:** EH

**Supervisor By :** ritesh

**Extraction Method:** ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6865 |
| Surrogate | 1.0ML | 100/150 PPM | SP6869 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3973 |
| Baked Na2SO4 | N/A | EP2646 |
| H2SO4 1:1 | N/A | EP2610 |
| 10N NaoH | N/A | EP2609 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

pH Adjusted to < 2 with 1:1 H2SO4 & >12 with 10N NaOH, 1.5ML Vial Lot # 2210443.

**KD Bath ID:** WATER BATH-1,2

**KD Bath Temperature:** 60 °C

**Envap ID:** NE VAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/03/25 | RJ (EXt-lab) | Rc/svoc |
| 13:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB169973**

**Analytical Method:** M3510C,3580A-Extraction SVOC-21

**Concentration Date:** 10/03/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: AddedBy | Surr/Spike By: VerifiedBy | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB169973BL | SBLK973 | SVOC-TCL BNA -20 | 1000 | 6 | ritesh | Evelyn | 1 | | | SEP-1 |
| PB169973BS | SLCS973 | SVOC-TCL BNA -20 | 1000 | 6 | ritesh | Evelyn | 1 | | | 2 |
| PB169973BSD | SLCSD973 | SVOC-TCL BNA -20 | 1000 | 6 | ritesh | Evelyn | 1 | | | 3 |
| Q3263-01 | 251818 | SVOC-TCL BNA -20 | 1000 | 6 | ritesh | Evelyn | 1 | N | | 4 |
| Q3263-02 | 266380 | SVOC-TCL BNA -20 | 1000 | 6 | ritesh | Evelyn | 1 | O | | 5 |
| Q3273-01 | MW1 | SVOC-TCL BNA -20 | 1000 | 6 | ritesh | Evelyn | 1 | B | | 6 |
| Q3274-01 | MW4 | SVOCMS Group1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 7 |

RJ

10/03

* **Extracts relinguished on the same date as received.**

164973
8:35

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3273 **WorkList ID :** 192268 **Department :** Extraction **Date :** 10-03-2025 08:30:38

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3263-01 | 251818 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | D31 | 10/01/2025 | 8270E |
| Q3263-02 | 266380 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | D31 | 10/01/2025 | 8270E |
| Q3273-01 | MW1 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | GENV01 | D31 | 10/01/2025 | 8270E |
| Q3274-01 | MW4 | Water | SVOCMS Group1 | Cool 4 deg C | GENV01 | D41 | 10/01/2025 | 8270E |

**Date/Time** 10/03/25 8:30
**Raw Sample Received by:** RJ (Ext-lab)
**Raw Sample Relinquished by:** [signature]

**Date/Time** 10/03/25 9:00
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** RJ (Ext-lab)

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q3274

**Test :** SVOCMS Group1

**Prepbatch ID :** PB169973,

**Sequence ID/Qc Batch ID:** BG100325,BG100325,

**Standard ID :**
EP2609,EP2610,EP2646,SP6856,SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864,SP6865,SP6869,SP6871,SP6872,SP6875,

**Chemical ID :**
10ul/1000ul sample,E3657,E3875,E3932,E3954,E3965,E3973,M6157,S11073,S11484,S11652,S11807,S11808,S12197,S12199,S12200,S12201,S12220,S12221,S12245,S12306,S12307,S12507,S12508,S12552,S12553,S12554,S12555,S12556,S12557,S12558,S12559,S12560,S12577,S12739,S12776,S12903,S12904,S12905,S13089,S13090,S13091,S13092,S13093,S13094,S13095,S13096,S13097,S13118,S13119,S13120,S13149,S13160,S13170,S13175,S13177,S13207,S13214,S13233,S13239,S13240,S13241,S13242,S13243,S13244,S13269,W3112,

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1874 | 10 N SODIUM HYDROXIDE SOLN | EP2609 | 05/07/2025 | 11/07/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 05/07/2025 |

**FROM** 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 314 | 1.1 H2SO4 SOLN | EP2610 | 05/07/2025 | 11/07/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 05/07/2025 |

**FROM** 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2646 | 09/26/2025 | 01/28/2026 | Evelyn Huang | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 09/26/2025 |

**FROM** 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4215 | New 8270E/625.1 ICAL Stock Solution 100 ng | SP6856 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.04000ml of S13207 + 0.20000ml of S12197 + 0.30000ml of S12306 + 0.40000ml of S12220 + 0.50000ml of S11807 + 0.50000ml of S12245 + 0.50000ml of S12776 + 0.50000ml of S13214 + 0.50000ml of S13233 + 0.70000ml of S12307 + 1.00000ml of S12739 + 4.86000ml of E3954 = Final Quantity: 10.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4216 | 80ng ICC | SP6857 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.20000ml of E3954 + 0.80000ml of SP6856 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4217 | 60ng ICC | SP6858 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.40000ml of E3954 + 0.60000ml of SP6856 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4218 | 50ng ICC | SP6859 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6856 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4219 | 40ng ICC | SP6860 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.60000ml of E3954 + 0.40000ml of SP6856 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4220 | 20ng ICC | SP6861 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.80000ml of E3954 + 0.20000ml of SP6856 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4221 | 10ng ICC | SP6862 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.75000ml of E3954 + 0.25000ml of SP6860 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4222 | 5ng ICC | SP6863 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.87500ml of E3954 + 0.12500ml of SP6860 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4223 | 2.5ng ICC | SP6864 | 08/12/2025 | 12/16/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 08/22/2025 |

**FROM** 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6863 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 171 | 8270/625 Spike Solution, 50/100 PPM | SP6865 | 08/25/2025 | 10/30/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 08/26/2025 |

**FROM** 0.40000ml of S11484 + 0.40000ml of S11652 + 0.40000ml of S12552 + 0.40000ml of S13149 + 0.40000ml of S13160 + 0.40000ml of S13207 + 0.90000ml of S12507 + 0.90000ml of S13089 + 1.10000ml of S13120 + 1.20000ml of S12553 + 1.20000ml of S12554 + 1.20000ml of S12555 + 1.20000ml of S12556 + 1.20000ml of S12557 + 1.20000ml of S12558 + 1.20000ml of S12559 + 1.20000ml of S13269 + 1.30000ml of S11808 + 1.30000ml of S12508 + 1.30000ml of S13090 + 1.30000ml of S13091 + 1.30000ml of S13092 + 1.30000ml of S13093 + 1.30000ml of S13094 + 1.30000ml of S13095 + 1.30000ml of S13096 + 1.30000ml of S13118 + 1.30000ml of S13119 + 1.30000ml of S13239 + 1.30000ml of S13240 + 1.30000ml of S13241 + 1.30000ml of S13242 + 1.30000ml of S13243 + 1.30000ml of S13244 + 163.00000ml of E3932 = Final Quantity: 200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 19 | 8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID | SP6869 | 09/10/2025 | 01/02/2026 | Jagrut Upadhyay | None | None | Rahul Chavli 09/16/2025 |

**FROM** 3.00000ml of S12197 + 3.00000ml of S12220 + 5.60000ml of S12221 + 5.60000ml of S12903 + 5.80000ml of S12904 + 6.00000ml of S12199 + 6.00000ml of S12200 + 965.00000ml of E3965 = Final Quantity: 1000.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 18 | Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP) | SP6871 | 09/22/2025 | 11/16/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 09/27/2025 |

**FROM** 0.04000ml of S12201 + 0.08000ml of S12905 + 0.10000ml of S11073 + 0.20000ml of S12560 + 0.20000ml of S13097 + 0.20000ml of S13244 + 1.18000ml of E3973 = Final Quantity: 2.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 416 | 40 ng BNA ICV, 40 PPM | SP6872 | 09/22/2025 | 11/16/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 09/27/2025 |

**FROM** 0.01000ml of S13175 + 0.60000ml of E3973 + 0.40000ml of SP6871 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6875 | 09/30/2025 | 03/30/2026 | Rahul Chavli | None | None | Jagrut Upadhyay 09/30/2025 |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4 | 23B1556310 | 12/31/2025 | 12/04/2023 / Rajesh | 12/01/2023 / Rajesh | E3657 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 01/28/2026 | 07/28/2025 / RUPESH | 01/29/2025 / Rajesh | E3875 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 11/05/2025 | 05/05/2025 / RUPESH | 04/23/2025 / RUPESH | E3932 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25B1862001 | 03/19/2026 | 07/14/2025 / RUPESH | 06/11/2025 / RUPESH | E3954 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 05/24/2027 | 08/22/2025 / RUPESH | 08/20/2025 / RUPESH | E3965 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25C1262005 | 04/16/2026 | 09/15/2025 / Riteshkumar | 09/15/2025 / Riteshkumar | E3973 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 24i1262013 | 11/07/2025 | 05/07/2025 / RUPESH | 02/18/2025 / Mohan | M6157 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 11/16/2025 | 05/16/2025 / Jagrut | 02/06/2023 / Christian | S11073 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3] | A0200549 | 10/30/2025 | 04/30/2025 / Rahul | 08/10/2023 / yogesh | S11484 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0201728 | 01/30/2026 | 07/30/2025 / Rahul | 11/09/2023 / Yogesh | S11652 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0200655 | 01/01/2026 | 07/01/2025 / Rahul | 11/21/2023 / rahul | S11807 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0200655 | 02/25/2026 | 08/25/2025 / Jagrut | 11/21/2023 / rahul | S11808 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 01/02/2026 | 07/02/2025 / Jagrut | 03/15/2024 / Rahul | S12197 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 03/10/2026 | 09/10/2025 / Jagrut | 03/15/2024 / Rahul | S12199 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 03/10/2026 | 09/10/2025 / Jagrut | 03/15/2024 / Rahul | S12200 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 03/22/2026 | 09/22/2025 / Jagrut | 03/15/2024 / Rahul | S12201 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 01/02/2026 | 07/02/2025 / Jagrut | 03/15/2024 / Rahul | S12220 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 03/10/2026 | 09/10/2025 / Jagrut | 03/15/2024 / Rahul | S12221 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30409 / Pyridine, 2000 PPM in P & T Methanol | A0206650 | 12/16/2025 | 06/16/2025 / Jagrut | 05/14/2024 / Rahul | S12245 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL | A0206859 | 01/31/2026 | 08/12/2025 / Jagrut | 05/30/2024 / Rahul | S12306 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL | A0206859 | 01/31/2026 | 08/12/2025 / Jagrut | 05/30/2024 / Rahul | S12307 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 01/01/2026 | 07/01/2025 / Rahul | 07/23/2024 / RAHUL | S12507 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12508 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 01/01/2026 | 07/01/2025 / Rahul | 07/23/2024 / RAHUL | S12552 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12553 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12554 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12555 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12556 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12557 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12558 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 02/25/2026 | 08/25/2025 / Jagrut | 07/23/2024 / RAHUL | S12559 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 03/22/2026 | 09/22/2025 / Jagrut | 07/23/2024 / RAHUL | S12560 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL, | A0212955 | 06/30/2027 | 03/31/2025 / Rahul | 08/01/2024 / Rahul | S12577 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31900 / SOM01.1 Mega Mix, 500-1000 ug/ml | A0215529 | 02/12/2026 | 08/12/2025 / Jagrut | 10/08/2024 / anahy | S12739 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 90494 / 1-Methylnaphthalene, 2000 ug/mL, in methylene chloride | 061323 | 02/12/2026 | 08/12/2025 / Jagrut | 11/08/2024 / anahy | S12776 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0216785 | 03/10/2026 | 09/10/2025 / Jagrut | 12/09/2024 / anahy | S12903 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0216785 | 03/10/2026 | 09/10/2025 / Jagrut | 12/09/2024 / anahy | S12904 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0216785 | 03/22/2026 | 09/22/2025 / Jagrut | 12/09/2024 / anahy | S12905 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 07/01/2025 / Rahul | 05/20/2025 / Rahul | S13089 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13090 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13091 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13092 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13093 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13094 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13095 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13096 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0221014 | 11/30/2025 | 09/03/2025 / Jagrut | 05/20/2025 / Rahul | S13097 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0218894 | 02/25/2026 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13118 |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0218894 | 02/25/2026 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13119 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0218894 | 02/25/2026 | 08/25/2025 / Jagrut | 05/20/2025 / Rahul | S13120 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2] | A0201702 | 02/25/2026 | 08/25/2025 / Jagrut | 11/13/2023 / Rahul | S13149 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4] | A0226283 | 02/25/2026 | 08/25/2025 / Jagrut | 06/04/2025 / Rahul | S13160 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0224359 | 02/11/2026 | 08/11/2025 / Rahul | 06/02/2025 / anahy | S13170 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0224359 | 03/15/2026 | 09/15/2025 / rahul | 06/02/2025 / anahy | S13175 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0224359 | 04/02/2026 | 10/02/2025 / Rahul | 06/02/2025 / anahy | S13177 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555868 / Custom Standard, Benzidine Std [CS 5328-1] | A0226493 | 02/12/2026 | 08/12/2025 / Jagrut | 06/11/2025 / anahy | S13207 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31879 / Benzoic Acid, 2000 µg/mL, Methylene Chloride, 1 mL/ampul | A0221395 | 02/12/2026 | 08/12/2025 / Jagrut | 07/10/2025 / anahy | S13214 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 582978 / Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul, Chromatographic, CS-347186 | A0228192 | 02/12/2026 | 08/12/2025 / Jagrut | 08/01/2025 / Rahul | S13233 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0228451 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13239 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0228451 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13240 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0228451 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13241 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0228451 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13242 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0228451 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13243 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0228451 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13244 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0228494 | 02/25/2026 | 08/25/2025 / Jagrut | 08/06/2025 / Rahul | S13269 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on
02/06/23
by
CG

S11071
to
S11075

**Catalog No. :** 31853 **Lot No.:** A0187043

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | | Grav. Conc. (weight/volume) | | Expanded Uncertainty (95% C.L.; K=2) | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | | | 2,019.0 | µg/mL | +/- | 11.8486 | µg/mL | Gravimetric |
| | **CAS #** | 123-91-1 | (Lot SHBN5929) | | | +/- | 43.2570 | µg/mL | Unstressed |
| | **Purity** | 99% | | | | +/- | 44.5129 | µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

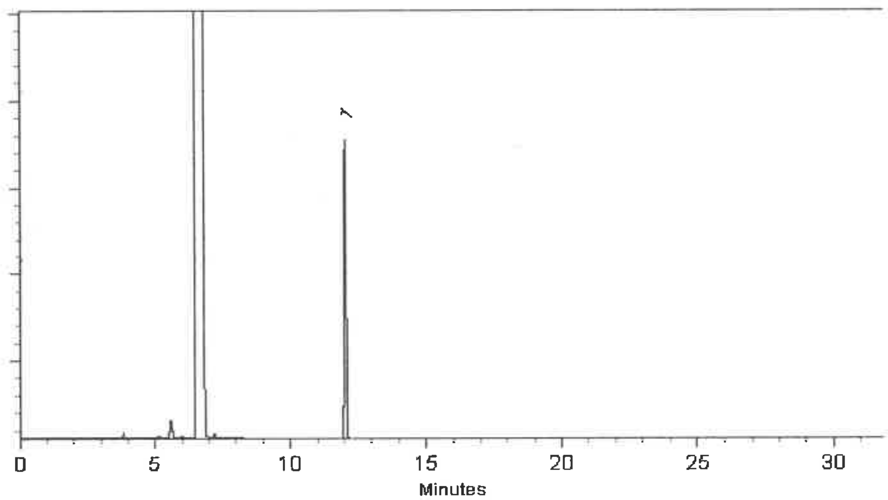
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I | **Date Mixed:** 07-Jul-2022 | **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC | **Date Passed:** 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec.on 8/20/25

E3965

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials LLC

VWR®

# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583
**Grade:** ACS GRADE
**Batch Number:** 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|---|---|---|---|
| Calcium | <= 0.005 % | <0.005 % | PASS |
| Chloride | <= 0.005 % | 0.002 % | PASS |
| Heavy Metals | <= 0.002 % | <0.002 % | PASS |
| Iron | <= 0.001 % | <0.001 % | PASS |
| Magnesium | <= 0.002 % | <0.002 % | PASS |
| Mercury | <= 0.1 ppm | <0.1 ppm | PASS |
| Nickel | <= 0.001 % | <0.001 % | PASS |
| Nitrogen Compounds | <= 0.001 % | <0.001 % | PASS |
| Phosphate | <= 0.001 % | <0.001 % | PASS |
| Potassium | <= 0.02 % | <0.02 % | PASS |
| Purity | >= 97.0 % | 99.2 % | PASS |
| Sodium Carbonate | <= 1.0 % | 0.5 % | PASS |
| Sulfate | <= 0.003 % | <0.003 % | PASS |

Internal ID #: 710

**Signature**

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

**Additional Information**

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

| | |
|---|---|
| E 3657 | E 3659 |
| E 3654 | E 3660 |

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE **RMB3375)** | FORMULA : | $Na_2SO_4$ |
| SPECIFICATION NUMBER: | 6399 | RELEASE DATE: | MAY/23/2024 |
| LOT NUMBER : | 417203 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|---|---|---|
| Assay ($Na_2SO_4$) | Min. 99.0% | 99.8 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 6.2 |
| Insoluble matter | Max. 0.01% | 0.001 % |
| Loss on ignition | Max. 0.5% | 0.1 % |
| Chloride (Cl) | Max. 0.001% | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate ($PO_4$) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.001 % |
| Magnesium (Mg) | Max. 0.005% | 0.001 % |
| Potassium (K) | Max. 0.008% | 0.001 % |
| Extraction-concentration suitability | Passes test | Passes test |
| Appearance | Passes test | Passes test |
| Identification | Passes test | Passes test |
| Solubility and foreing matter | Passes test | Passes test |
| Retained on US Standard No. 10 sieve | Max. 1% | 0.2 % |
| Retained on US Standard No. 60 sieve | Min. 94% | 96.2 % |
| Through US Standard No. 60 sieve | Max. 5% | 3.5 % |
| Through US Standard No. 100 sieve | Max. 10% | 0.1 % |

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ J.T.Baker

Material No.: 9266-A4
Batch No.: 25B1862001
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 99.9 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 ppm |
| Titrable Acid (μeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS 7/14/25

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3954

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ J.T.Baker

M6157
AB

Material No.: 9673-33
Batch No.: 2411262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay ($H_2SO_4$) | 95.0 - 98.0 % | 96.2 % |
| Appearance | Passes Test | Passes Test |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | <1 ppm |
| ACS - Substances Reducing Permanganate(as SO2) | <= 2 ppm | <2 ppm |
| Ammonium ($NH_4$) | <= 1 ppm | <1 ppm |
| Chloride (Cl) | <= 0.1 ppm | <0.1 ppm |
| Nitrate ($NO_3$) | <= 0.2 ppm | 0.1 ppm |
| Phosphate ($PO_4$) | <= 0.5 ppm | <0.1 ppm |
| Trace Impurities - Aluminum (Al) | <= 30.0 ppb | <5.0 ppb |
| Arsenic & Antimony (as As) | <= 4.0 ppb | <2.0 ppb |
| Trace Impurities - Boron (B) | <= 10.0 ppb | <5.0 ppb |
| Trace Impurities - Cadmium (Cd) | <= 2.0 ppb | <1.0 ppb |
| Trace Impurities - Chromium (Cr) | <= 6.0 ppb | <1.0 ppb |
| Trace Impurities - Cobalt (Co) | <= 0.5 ppb | <0.3 ppb |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | <1.0 ppb |
| Trace Impurities - Gold (Au) | <= 10.0 ppb | <5.0 ppb |
| Heavy Metals (as Pb) | <= 500.0 ppb | <100.0 ppb |
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | <1.0 ppb |
| Trace Impurities - Lead (Pb) | <= 0.5 ppb | <0.5 ppb |
| Trace Impurities - Magnesium (Mg) | <= 7.0 ppb | <1.0 ppb |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | <1.0 ppb |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | <0.1 ppb |
| Trace Impurities - Nickel (Ni) | <= 2.0 ppb | <0.3 ppb |
| Trace Impurities - Potassium (K) | <= 500.0 ppb | <10.0 ppb |
| Trace Impurities - Selenium (Se) | <= 50.0 ppb | 7.2 ppb |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | 12.8 ppb |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | <1.0 ppb |

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ J.T.Baker

Material No.: 9673-33
Batch No.: 2411262013

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Sodium (Na) | <= 500.0 ppb | <5.0 ppb |
| Trace Impurities - Strontium (Sr) | <= 5.0 ppb | <1.0 ppb |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | 1.1 ppb |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | <1.0 ppb |

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ilac-MRA · ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA · ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555870 **Lot No.:** A0200549

S11484
↓
S11493

Y. P.
08/10/23

**Description :** Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 25,008.0 µg/mL | +/- 777.3323 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 02-Aug-2023 **Balance:** 1128342314

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  *k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555872 **Lot No.:** A0201728

S11649
↓
S11658
Y.P.
11/13/23

**Description :** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP230530RSR | 99% | 25,000.0 µg/mL | +/- 777.0837 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023 **Balance:** B251644995

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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## CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0200655

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11795
↓
S11808

RC / 11/30/23

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99% | 2,007.0 µg/mL | +/- 24.9775 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

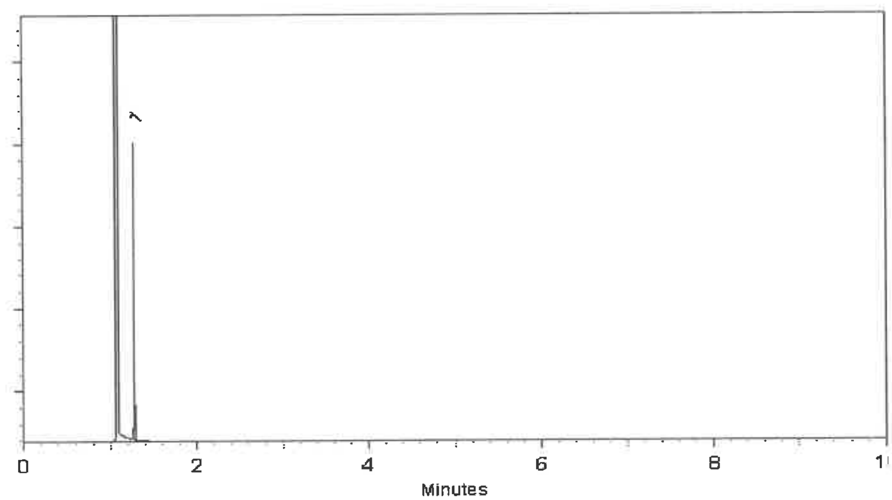
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 06-Aug-2023

**Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 08-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  *k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0200655

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11795
↓
S11808

RC/
11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99% | 2,007.0 µg/mL | +/- 24.9775 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

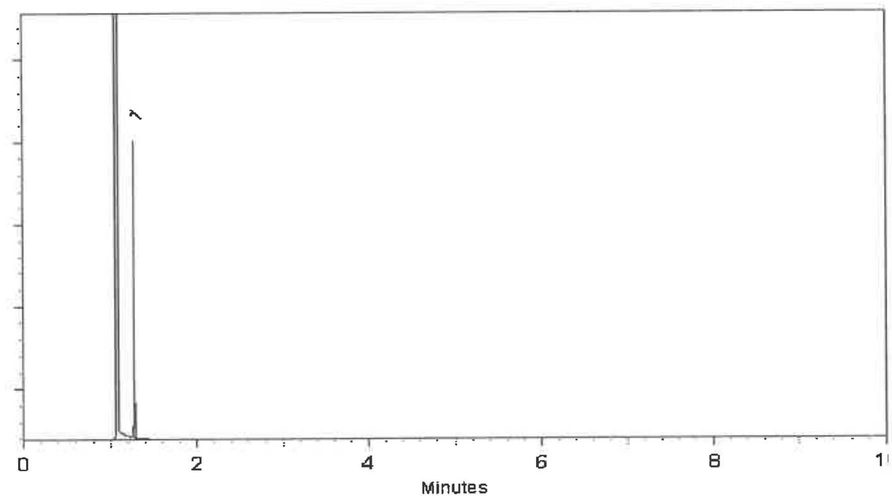
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 08-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  *k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

S12187 → S12206 RC/ 03/18/24

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

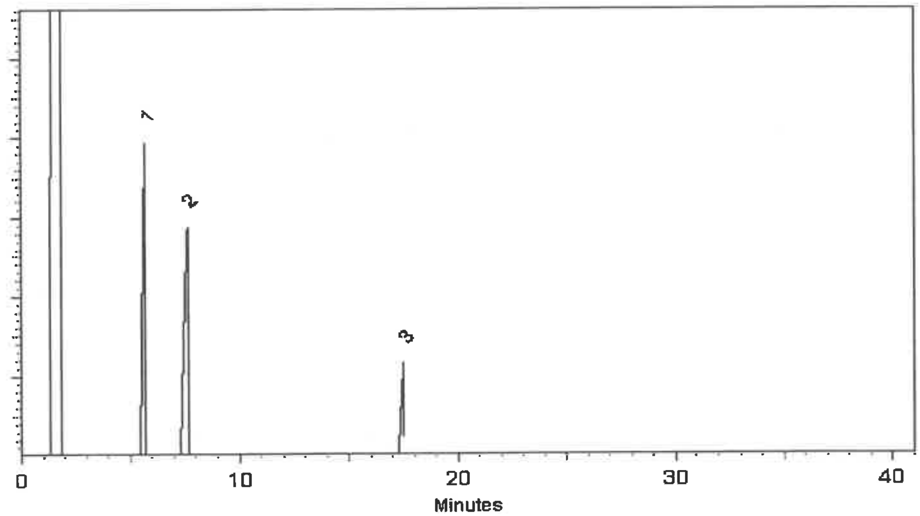
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I — **Date Mixed:** 04-Jan-2024 — **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC — **Date Passed:** 08-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

S12187 → S12206 RC/ 03/18/24

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol

**CAS #** 67-56-1

**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

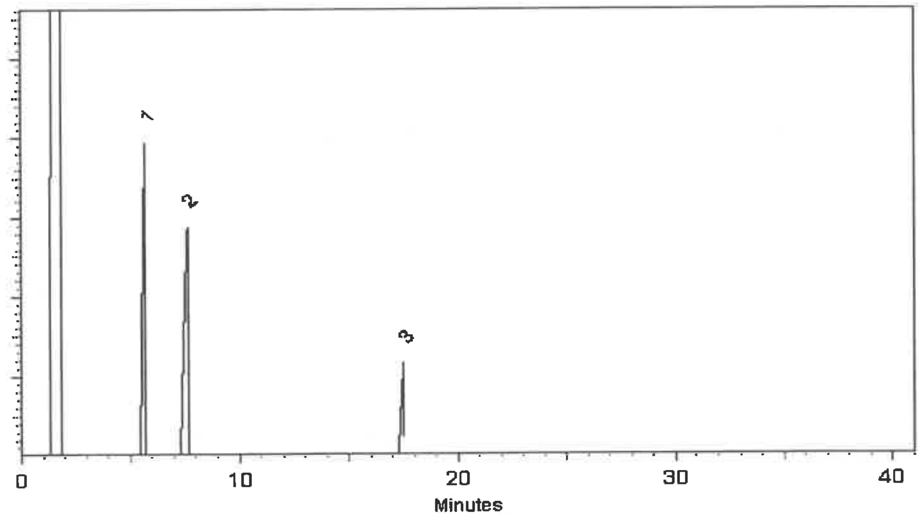
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin
**Penelope Riglin - Operations Tech I** | **Date Mixed:** 04-Jan-2024 | **Balance Serial #** 1128360905

Christie Mills
**Christie Mills - Operations Lead Tech - ARM QC** | **Date Passed:** 08-Jan-2024

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

S12187 → S12206 RC/ 03/18/24

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

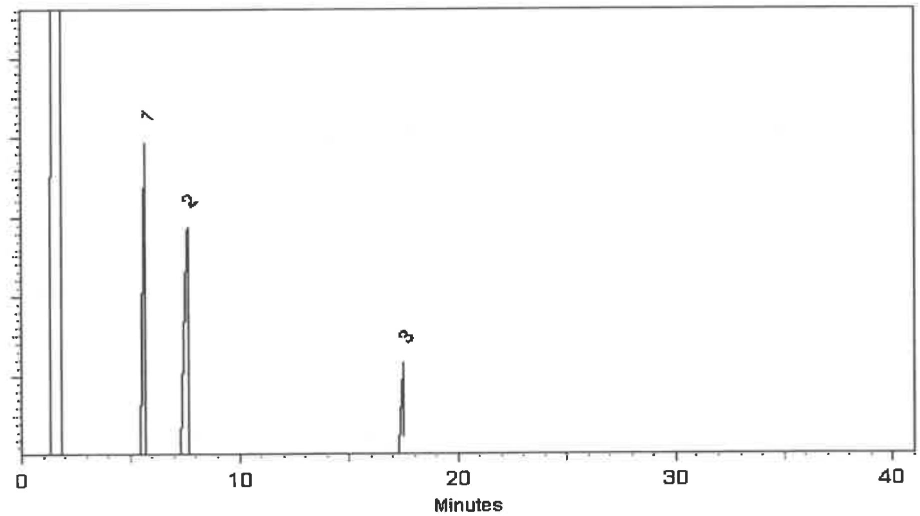
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I    **Date Mixed:** 04-Jan-2024    **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC    **Date Passed:** 08-Jan-2024

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**Catalog No. :** 31087 **Lot No.:** A0206206

S12187 ↓ S12206 RC/ 03/18/24

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol

**CAS #** 67-56-1

**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

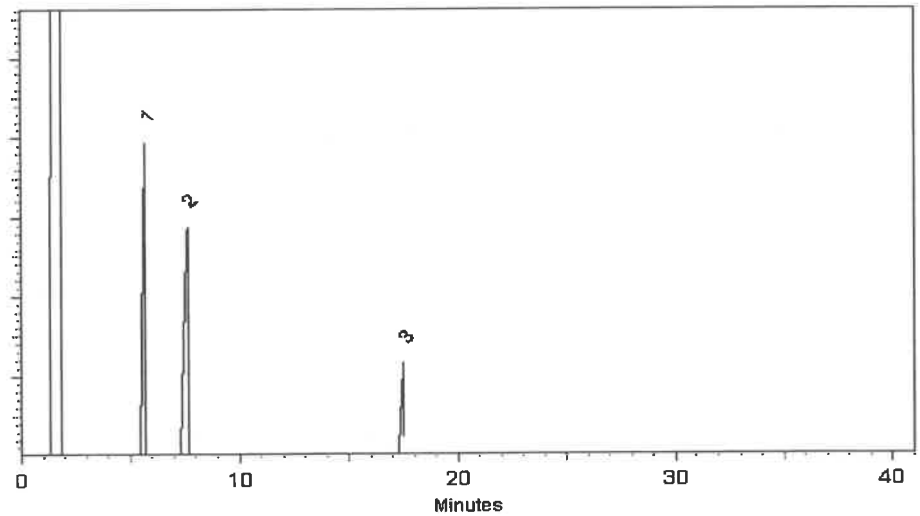
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024

**Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

**Date Passed:** 08-Jan-2024

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**Catalog No. :** 31086 **Lot No.:** A0206381

S12207 ↓ S12221 RC/ 03/18/24

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | 4165-60-0 | I-25158 | 99% | 5,029.3 µg/mL | +/- 226.5204 |
| 2 | 2-Fluorobiphenyl | 321-60-8 | 00021384 | 99% | 5,030.9 µg/mL | +/- 226.5936 |
| 3 | p-Terphenyl-d14 | 1718-51-0 | PR-32599 | 99% | 5,026.4 µg/mL | +/- 226.3909 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

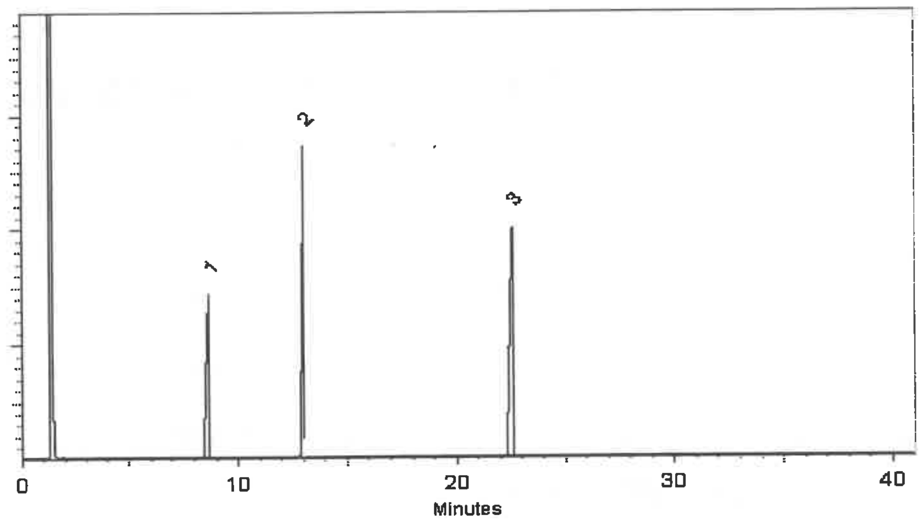
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

**Date Mixed:** 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer J Pollino

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Jan-2024

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
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**Catalog No. :** 31086 **Lot No.:** A0206381

S12207 ↓ S12221 RC/ 03/18/24

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | 4165-60-0 | I-25158 | 99% | 5,029.3 µg/mL | +/- 226.5204 |
| 2 | 2-Fluorobiphenyl | 321-60-8 | 00021384 | 99% | 5,030.9 µg/mL | +/- 226.5936 |
| 3 | p-Terphenyl-d14 | 1718-51-0 | PR-32599 | 99% | 5,026.4 µg/mL | +/- 226.3909 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

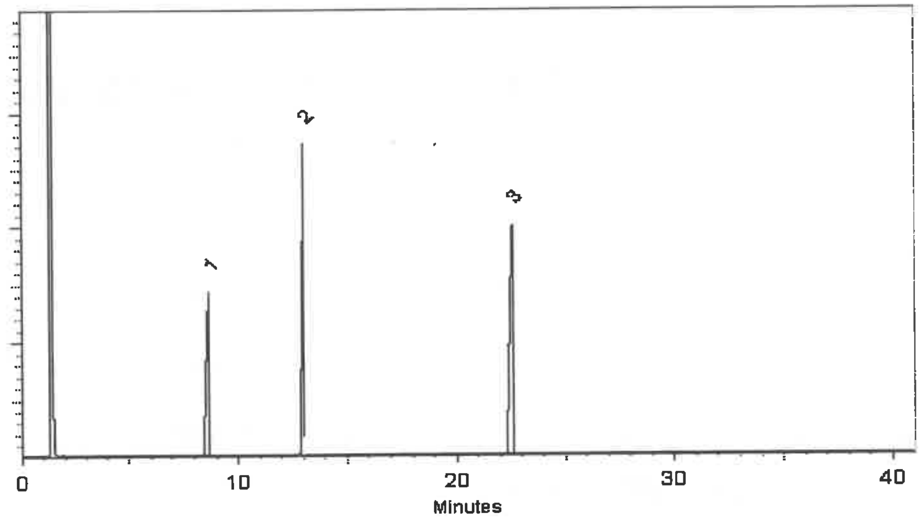
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

**Jess Hoy - Operations Tech I** | **Date Mixed:** 09-Jan-2024 | **Balance Serial #** 1128360905

**Jennifer Pollino - Operations Tech III - ARM QC** | **Date Passed:** 11-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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**Catalog No. :** 30409 **Lot No.:** A0206650

S12242
↓
S12254

RC/
5/15/24

**Description :** Pyridine Standard

Pyridine 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBP6240 | 99% | 2,020.0 µg/mL | +/- 33.0924 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

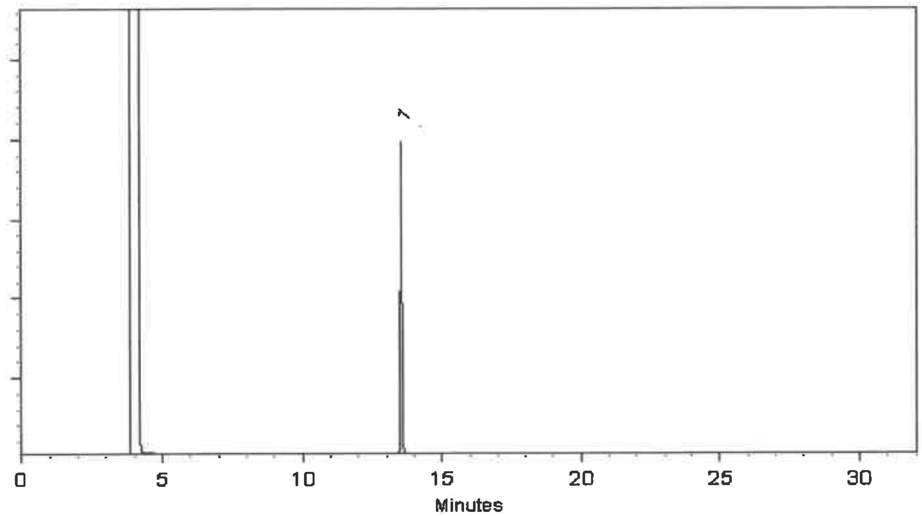
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 16-Jan-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 18-Jan-2024

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**Certificate #FM 80397**

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512302 ↓ 512311 RC/ 5/30/24

**Catalog No. :** 31902 **Lot No.:** A0206859

**Description :** Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.5419 |
| 2 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.8 µg/mL | +/- 29.6521 |
| 3 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,008.8 µg/mL | +/- 29.6521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

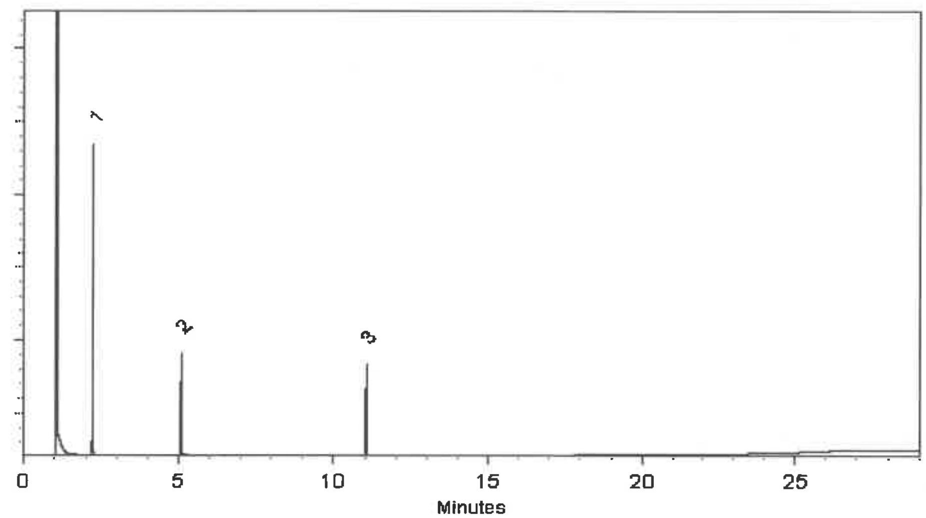
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I | **Date Mixed:** 23-Jan-2024 | **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 24-Jan-2024

**Manufactured under Restek's ISO 9001:2015**
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512302
↓
512311
RC
5/30/24

**Catalog No. :** 31902 **Lot No.:** A0206859

**Description :** Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.5419 |
| 2 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.8 µg/mL | +/- 29.6521 |
| 3 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,008.8 µg/mL | +/- 29.6521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

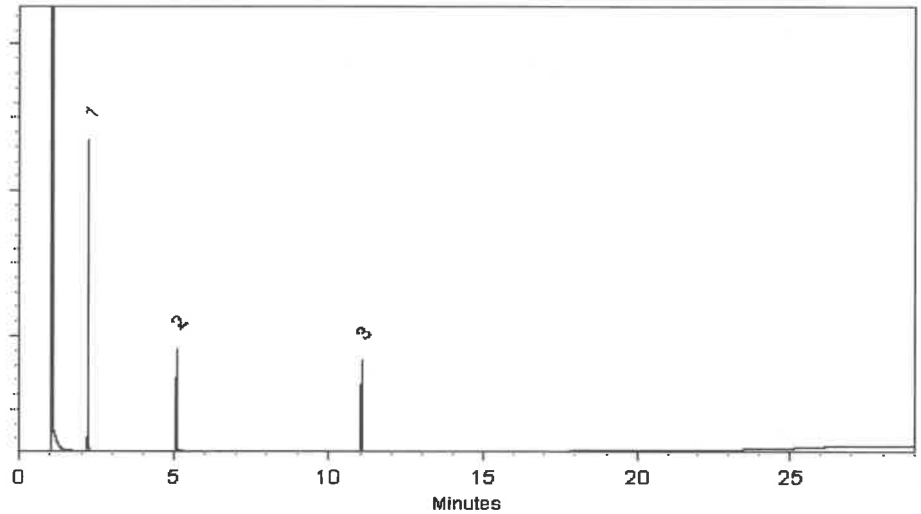
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I **Date Mixed:** 23-Jan-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 24-Jan-2024

**Manufactured under Restek's ISO 9001:2015**
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**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder
**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S240326RSR | 99% | 1,004.0 µg/mL | +/- 23.0487 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,005.0 µg/mL | +/- 23.0717 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,000.0 µg/mL | +/- 22.9569 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449
↓
S12508

RC/
7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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# CERTIFIED REFERENCE MATERIAL

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S240326RSR | 99% | 1,004.0 µg/mL | +/- 23.0487 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,005.0 µg/mL | +/- 23.0717 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,000.0 µg/mL | +/- 22.9569 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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# CERTIFIED REFERENCE MATERIAL

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509
↓
S12568
RC/
7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

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## Purity Notes:

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## Certified Uncertainty Value Notes:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 RC/ 7/24/24

Jess Hoy - Operations Tech I **Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

# General Certified Reference Material Notes

## Expiration Notes:

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## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
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## Certified Uncertainty Value Notes:

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## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 RC/ 7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 RC/ 7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
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| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 RC/ 7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 RC/ 7/24/24

Jess Hoy - Operations Tech I **Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ilac-MRA

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509
↓
S12568

RC/ 7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

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Certificate #3222.01

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509
↓
S12568

RC/
7/24/24

Jess Hoy - Operations Tech I **Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 → S12568 RC/ 7/24/24

Jess Hoy - Operations Tech I **Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

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## Handling Notes:

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

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Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,004.5 µg/mL | +/- 44.8902 |
| 2 | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147 | 99% | 1,004.5 µg/mL | +/- 44.8902 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 44.9572 |
| 4 | 4,4'-DDT | 50-29-3 | S240530RSR | 97% | 1,000.1 µg/mL | +/- 44.6922 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12577
↓
S12579

RC
8/2/24

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

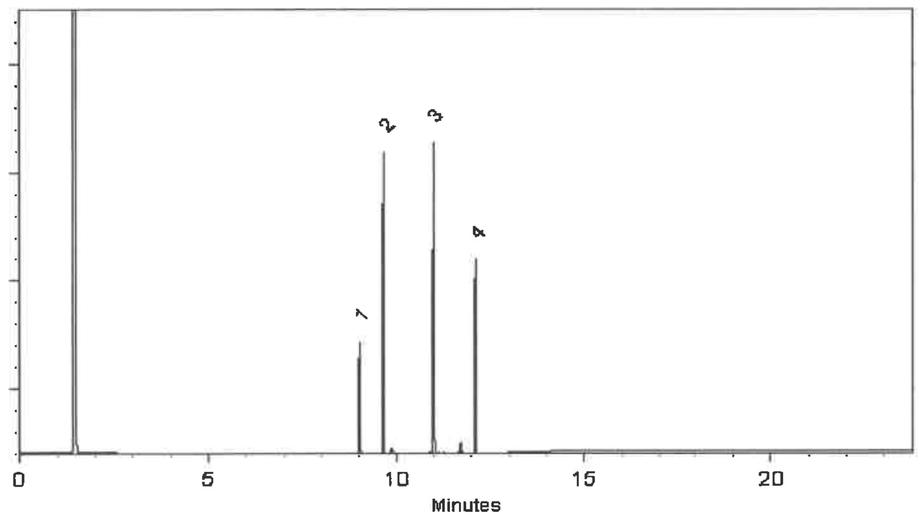
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I | **Date Mixed:** 19-Jun-2024 | **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 26-Jun-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Fax: 1-814-353-1309
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# CERTIFIED REFERENCE MATERIAL



# Certificate of Analysis

*chromatographic plus*

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31900 **Lot No.:** A0215529

**Description :** OLM 01.1 Revised SV MegaMix

OLM 01.1 Revised SV MegaMix 500-1000 µg/mL, Methylene chloride, 1mL/ampul

S12736
↓
S12754
AC
10/9/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,008.6 µg/mL | +/- 19.3211 |
| 2 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,002.3 µg/mL | +/- 19.2013 |
| 3 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.2 µg/mL | +/- 19.2564 |
| 4 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,006.3 µg/mL | +/- 19.2768 |
| 5 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,009.3 µg/mL | +/- 19.3354 |
| 6 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,003.8 µg/mL | +/- 18.5851 |
| 7 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,000.6 µg/mL | +/- 19.1690 |
| 8 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.5 µg/mL | +/- 19.2599 |
| 9 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 500.3 µg/mL | +/- 9.5854 |
| 10 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 9.6213 |
| 11 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.2 µg/mL | +/- 19.2181 |
| 12 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,007.0 µg/mL | +/- 19.2911 |
| 13 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,003.4 µg/mL | +/- 19.2217 |
| 14 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,008.1 µg/mL | +/- 19.3115 |
| 15 | Bis(2-chloroethoxy)methane | 111-91-1 | 15174900 | 99% | 1,002.3 µg/mL | +/- 19.2001 |
| 16 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,002.3 µg/mL | +/- 19.2001 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,003.6 | µg/mL | +/- 19.2253 |
| 18 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.5 | µg/mL | +/- 19.2791 |
| 19 | Hexachlorobutadiene | 87-68-3 | RP240110CTH | 97% | 1,003.9 | µg/mL | +/- 19.2316 |
| 20 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,005.1 | µg/mL | +/- 19.2718 |
| 21 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,003.8 | µg/mL | +/- 19.2301 |
| 22 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,000.5 | µg/mL | +/- 19.1832 |
| 23 | Hexachlorocyclopentadiene | 77-47-4 | 099063I14L | 98% | 1,001.3 | µg/mL | +/- 19.1811 |
| 24 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.1 | µg/mL | +/- 19.2349 |
| 25 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,008.6 | µg/mL | +/- 19.3221 |
| 26 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,002.3 | µg/mL | +/- 19.2001 |
| 27 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,001.3 | µg/mL | +/- 18.5388 |
| 28 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,000.5 | µg/mL | +/- 19.1832 |
| 29 | Acenaphthylene | 208-96-8 | 214935V16F | 97% | 999.9 | µg/mL | +/- 19.1561 |
| 30 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,005.8 | µg/mL | +/- 19.2672 |
| 31 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,001.2 | µg/mL | +/- 19.1798 |
| 32 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 19.1570 |
| 33 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,005.5 | µg/mL | +/- 19.2791 |
| 34 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,008.8 | µg/mL | +/- 19.3259 |
| 35 | Dibenzofuran | 132-64-9 | MKCD9952 | 99% | 1,002.5 | µg/mL | +/- 18.5619 |
| 36 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,002.5 | µg/mL | +/- 19.2049 |
| 37 | 4-Nitrophenol | 100-02-7 | RP230627 | 99% | 1,004.4 | µg/mL | +/- 19.2421 |
| 38 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,001.5 | µg/mL | +/- 19.2024 |
| 39 | Fluorene | 86-73-7 | 10241100 | 99% | 1,004.2 | µg/mL | +/- 19.2373 |
| 40 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCT7248 | 99% | 1,003.0 | µg/mL | +/- 19.2145 |
| 41 | Diethylphthalate | 84-66-2 | BCCJ6241 | 99% | 1,002.1 | µg/mL | +/- 19.1978 |
| 42 | 4-Nitroaniline | 100-01-6 | RP240510RSR | 99% | 1,005.0 | µg/mL | +/- 19.2695 |
| 43 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S240410RSR | 99% | 1,001.1 | µg/mL | +/- 19.1786 |
| 44 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,004.5 | µg/mL | +/- 19.2599 |
| 45 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.9 | µg/mL | +/- 19.2708 |
| 46 | Hexachlorobenzene | 118-74-1 | 15458400 | 99% | 1,009.2 | µg/mL | +/- 19.3331 |
| 47 | Pentachlorophenol | 87-86-5 | RP240411RSR | 99% | 1,008.9 | µg/mL | +/- 19.3283 |
| 48 | Phenanthrene | 85-01-8 | MKCS5188 | 99% | 1,006.2 | µg/mL | +/- 19.2756 |
| 49 | Anthracene | 120-12-7 | 101492T18R | 99% | 1,001.6 | µg/mL | +/- 19.1882 |
| 50 | Carbazole | 86-74-8 | 15276700 | 99% | 1,004.0 | µg/mL | +/- 19.2503 |
| 51 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,002.5 | µg/mL | +/- 19.2049 |
| 52 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,008.7 | µg/mL | +/- 19.3235 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 53 | Pyrene | 129-00-0 | BCCK2592 | 99% | 1,002.9 | µg/mL | +/- 19.2121 |
| 54 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.6 | µg/mL | +/- 19.2444 |
| 55 | Benz(a)anthracene | 56-55-3 | I50012022BAA | 99% | 1,009.1 | µg/mL | +/- 19.3307 |
| 56 | Chrysene | 218-01-9 | RP240719RSR | 99% | 1,005.9 | µg/mL | +/- 19.2708 |
| 57 | 3,3'-Dichlorobenzidine | 91-94-1 | S231019RSR | 99% | 1,001.5 | µg/mL | +/- 19.2024 |
| 58 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,006.3 | µg/mL | +/- 19.2768 |
| 59 | Di-n-octyl phthalate | 117-84-0 | 15276800 | 99% | 1,008.9 | µg/mL | +/- 19.3283 |
| 60 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,006.4 | µg/mL | +/- 19.2792 |
| 61 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,001.9 | µg/mL | +/- 19.1942 |
| 62 | Benzo(a)pyrene | 50-32-8 | O45GL | 98% | 1,003.9 | µg/mL | +/- 19.2327 |
| 63 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,003.7 | µg/mL | +/- 19.2281 |
| 64 | Dibenz(a,h)anthracene | 53-70-3 | 2-ASA-59-1 | 99% | 1,004.2 | µg/mL | +/- 19.2373 |
| 65 | Benzo(g,h,i)perylene | 191-24-2 | RP240625RSR | 97% | 1,001.5 | µg/mL | +/- 19.1863 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

## *Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

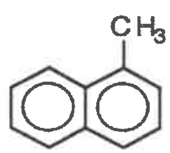
**CERTIFIED WEIGHT REPORT**

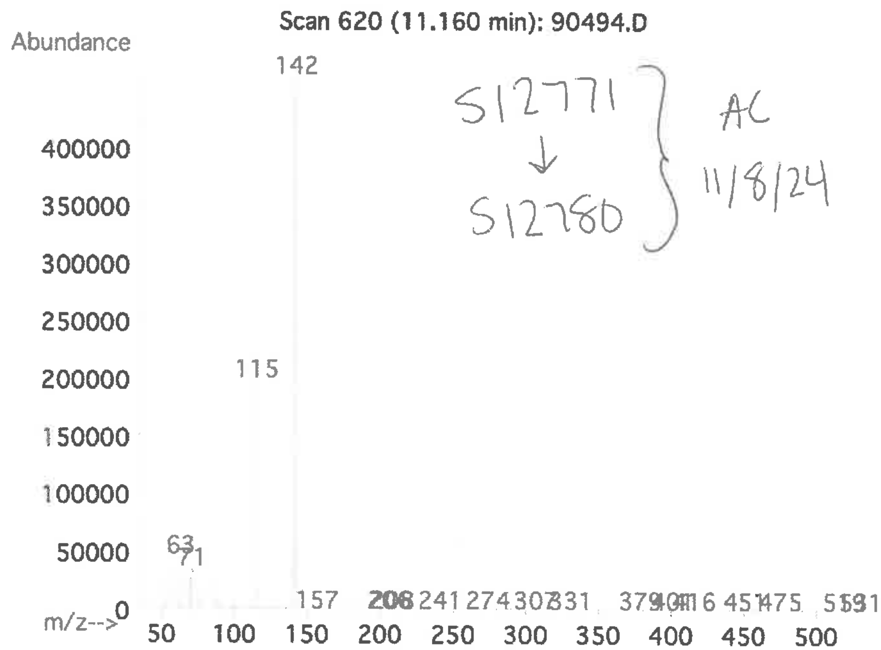
| | | | |
|---|---|---|---|
| **Part Number:** | 90494 | **Solvent(s):** | **Lot#** |
| Lot Number: | 061323 | Methylene chloride | C21F09CAS0000DCM |
| Description: | 1-Methylnaphthalene | | |
| Expiration Date: | 061328 | | |
| Recommended Storage: | Refrigerate (4 °C) | | |
| Nominal Concentration (µg/mL): | 2000 | | |
| NIST Test ID#: | 6UTB | 5E-05 | Balance Uncertainty |
| Weight(s) shown below were combined and diluted to (mL): | 100.0 | 0.031 | Flask Uncertainty |

| | | |
|---|---|---|
| Prashant Chauhan (signature) | | 061323 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas (signature) | | 061323 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 1-Methylnaphthalene | 313 | 04413BX | 2000 | 98 | 0.2 | 0.20417 | 0.20430 | 2001.2 | 8.3 | 90-12-0 | N/A | orl-rat 1840mg/kg |

**Method GC8MSD-3.M:** Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.


S12771 → S12780 AC 11/8/24

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

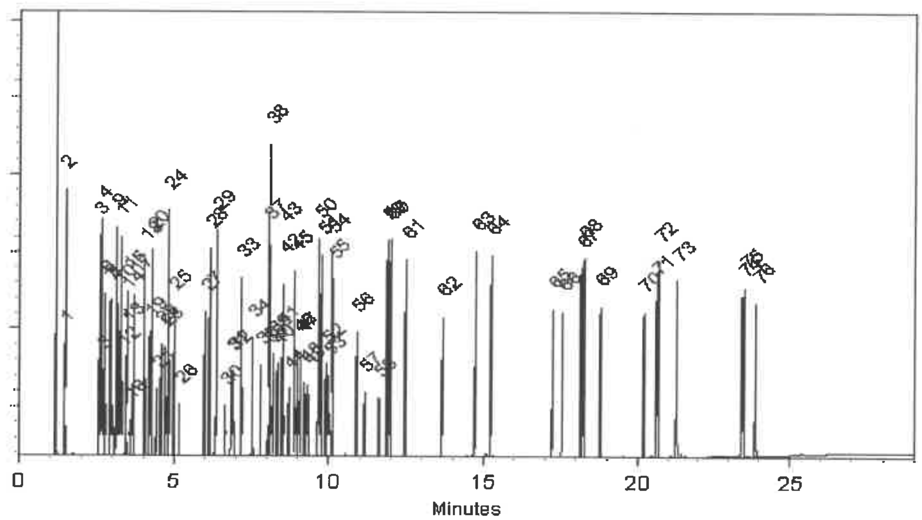
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088
↓
S13117
RC
5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

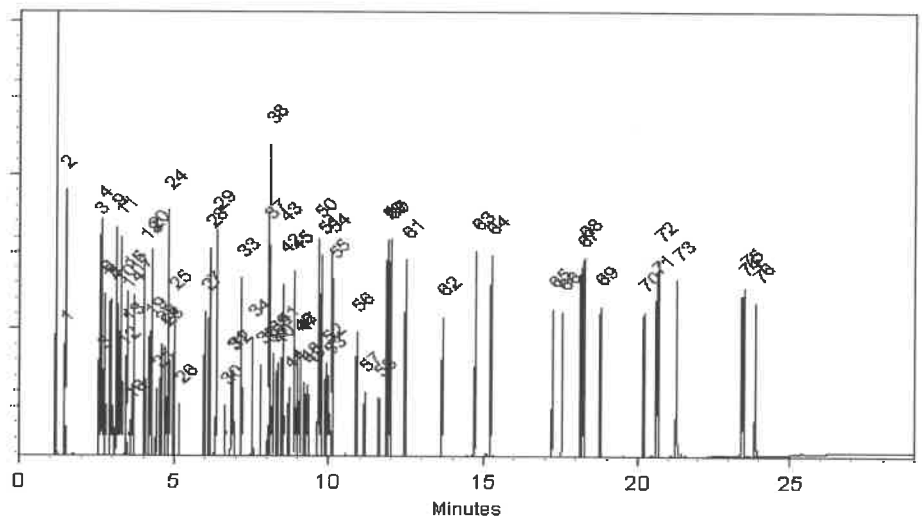
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I — **Date Mixed:** 12-Jan-2025 — **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I — **Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- | 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- | 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- | 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- | 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- | 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- | 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- | 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- | 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- | 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- | 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- | 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- | 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- | 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- | 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- | 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- | 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- | 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- | 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- | 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- | 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- | 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- | 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- | 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- | 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- | 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- | 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- | 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- | 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- | 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- | 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- | 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- | 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- | 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- | 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- | 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- | 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

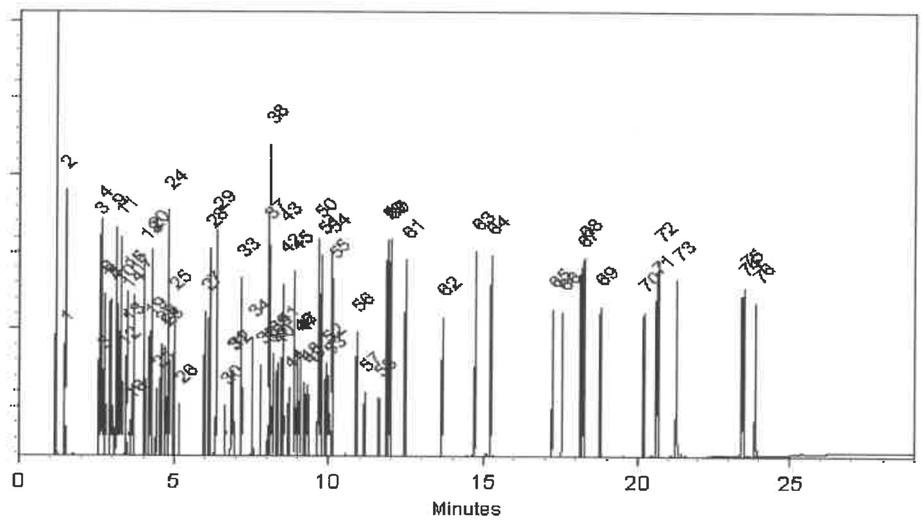
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I | **Date Mixed:** 12-Jan-2025 | **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I | **Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

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Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis
*chromatographic plus*

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 } RC 5/20/25.

**Description :** 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

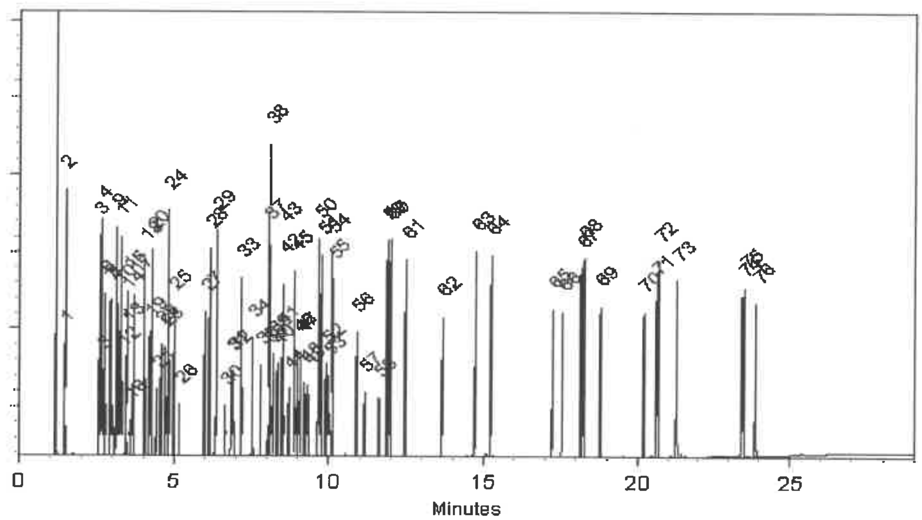
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I | **Date Mixed:** 12-Jan-2025 | **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I | **Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

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ilac-MRA

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S13088 ↓ S13117 RC 5/20/25.

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

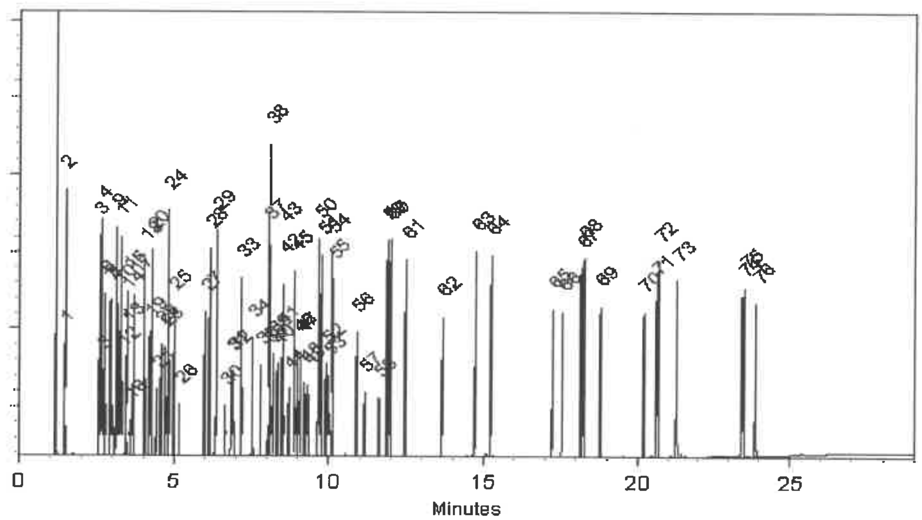
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

RESTEK
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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis
*chromatographic plus*



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride

**CAS #** 75-09-2

**Purity** 99%

**Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

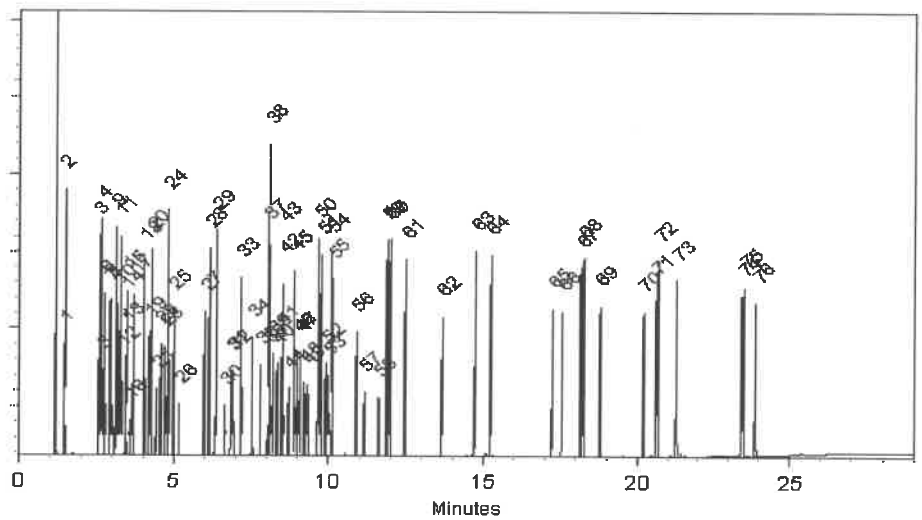
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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www.restek.com

# CERTIFIED REFERENCE MATERIAL

ilac-MRA

A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- | 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- | 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- | 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- | 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- | 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- | 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- | 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- | 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- | 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- | 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- | 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- | 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- | 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- | 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- | 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- | 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- | 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- | 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- | 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- | 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- | 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- | 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- | 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- | 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- | 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- | 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- | 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- | 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- | 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- | 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- | 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- | 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- | 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- | 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- | 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- | 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

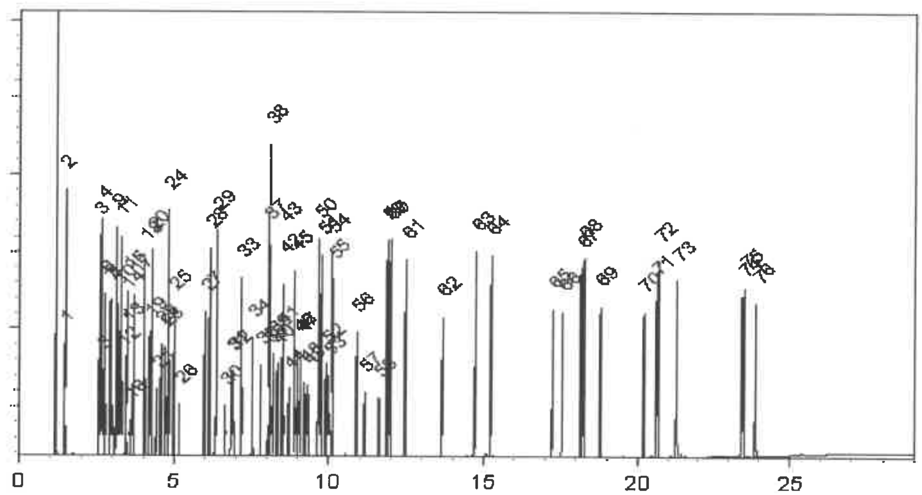
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

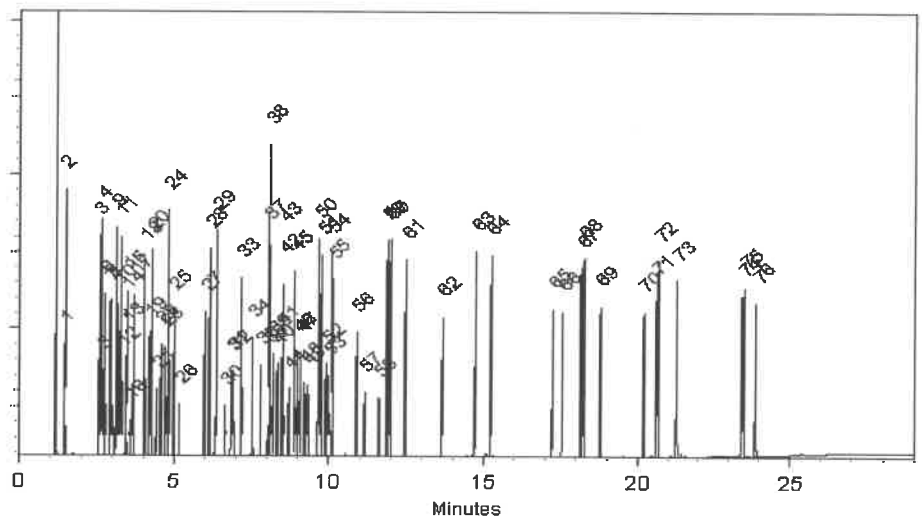
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 21-Jan-2025

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

# CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

# Certificate of Analysis

*chromatographic plus*

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBR4811 | 99% | 1,005.2 µg/mL | +/- 36.5730 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 1,005.5 µg/mL | +/- 36.5848 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5780 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.4 µg/mL | +/- 36.5816 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,004.7 µg/mL | +/- 36.5562 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.3 µg/mL | +/- 36.5766 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,006.3 µg/mL | +/- 36.6125 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,005.5 µg/mL | +/- 36.5853 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,004.6 µg/mL | +/- 36.5507 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,004.8 µg/mL | +/- 36.5575 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,005.4 µg/mL | +/- 36.5803 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBL3873 | 99% | 502.7 µg/mL | +/- 18.2888 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 502.6 µg/mL | +/- 18.2869 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.6 µg/mL | +/- 36.5502 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,005.3 µg/mL | +/- 36.5780 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | DIRAF | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene | 208-96-8 | 214935V18H | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP240523RSR | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | 002531K02D | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate | 84-66-2 | STBL3611 | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline | 100-01-6 | RP240830RSR | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene | 118-74-1 | 15828800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene | 120-12-7 | MKCW9141 | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole | 86-74-8 | 15630800 | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene | 206-44-0 | A0458721 | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene | 129-00-0 | BCCL8032 | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCR8567 | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene | 56-55-3 | I60012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene | 218-01-9 | RP241212RSR | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15817300 | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 022013B | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

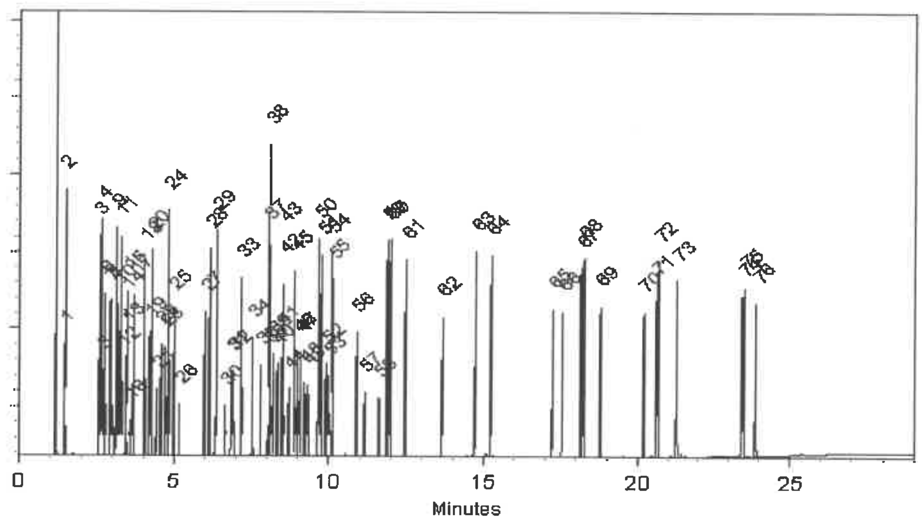
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 21-Jan-2025

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0218894

513118
↓
513147
RC/
5/20/25.

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99% | 2,002.4 µg/mL | +/- 24.9202 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

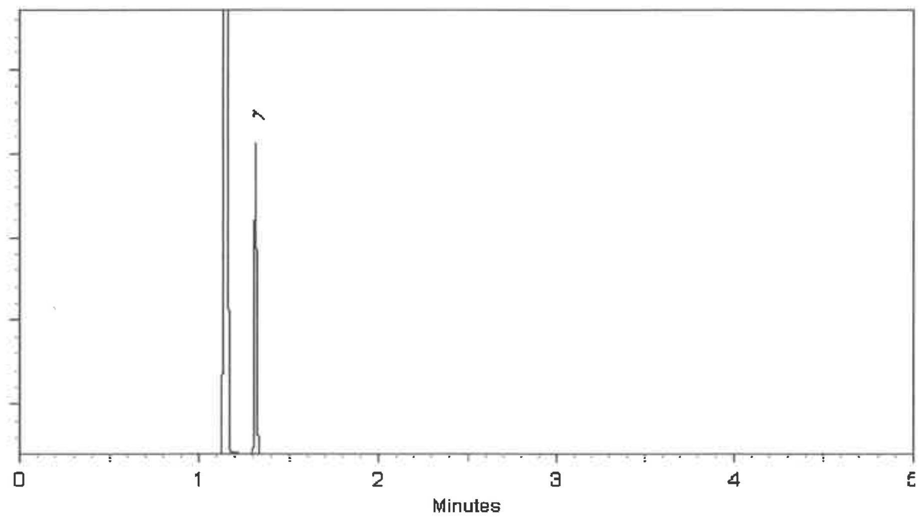
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 07-Nov-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 11-Nov-2024

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**Catalog No. :** 31853 **Lot No.:** A0218894

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

513118
↓
513147

RC/
5/20/25.

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99% | 2,002.4 µg/mL | +/- 24.9202 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

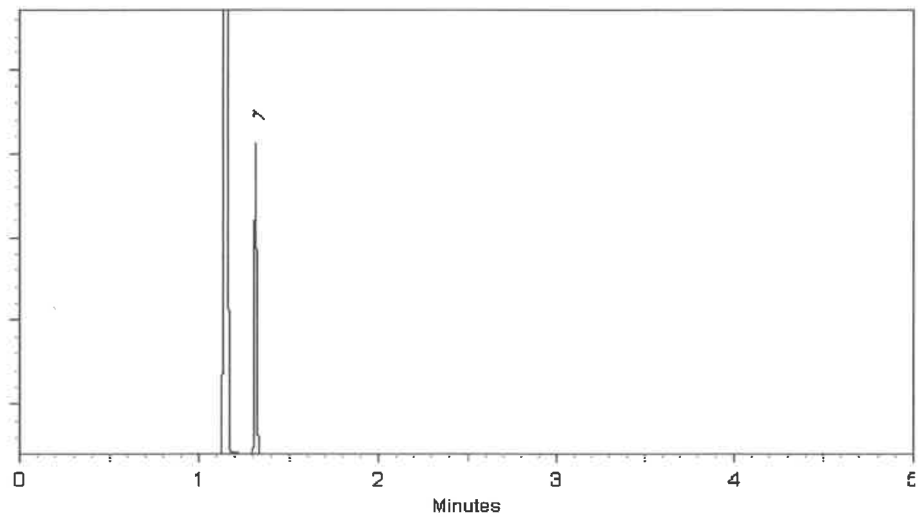
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 07-Nov-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 11-Nov-2024

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**Catalog No.:** 31853 **Lot No.:** A0218894

513118
↓
513147

RC/
5/20/25.

**Description:** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size:** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date:** November 30, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99% | 2,002.4 µg/mL | +/- 24.9202 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

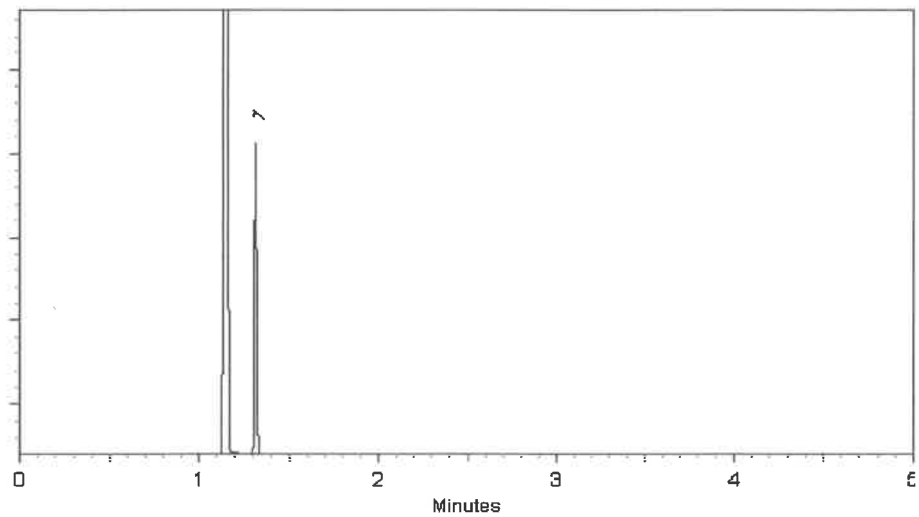
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 07-Nov-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

**Date Passed:** 11-Nov-2024

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555871 **Lot No.:** A0226283

S13158
↓
S13167
RC/
6/4/25

**Description :** Custom 4-Nitrophenol Standard
Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** June 30, 2028 **Storage:** 10°C or colder
**Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99% | 25,192.0 µg/mL | +/- 783.0517 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Morgan Craighead - Mix Technician **Date Mixed:** 02-Jun-2025 **Balance:** C322230531

REVIEWED

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 31206 **Lot No.:** A0224359

S13168 ↓ S13197 AC 6/9/25

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,000.0 µg/mL | +/- 90.0812 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-34099 | 99% | 2,000.0 µg/mL | +/- 90.0812 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-33506 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,000.0 µg/mL | +/- 90.0812 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 31206 **Lot No.:** A0224359

S13168 ↓ S13197 AC 6/9/25

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,000.0 µg/mL | +/- 90.0812 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-34099 | 99% | 2,000.0 µg/mL | +/- 90.0812 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-33506 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,000.0 µg/mL | +/- 90.0812 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

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**Catalog No. :** 31206 **Lot No.:** A0224359

S13168 → S13197 AC 6/9/25

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,000.0 µg/mL | +/- 90.0812 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-34099 | 99% | 2,000.0 µg/mL | +/- 90.0812 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-33506 | 99% | 2,000.8 µg/mL | +/- 90.1187 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,000.0 µg/mL | +/- 90.0812 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

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**Catalog No. :** 555868 **Lot No.:** A0226493

S13198 → S13207 AC 6/11/25

**Description :** Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** June 30, 2028 **Storage:** 10°C or colder
**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Benzidine | 92-87-5 | S250227ECS | 99% | 25,004.0 µg/mL | +/- 495.8040 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Laith Clemente - Operations Technician I **Date Mixed:** 09-Jun-2025 **Balance:** 1122030677

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**Catalog No. :** 31879 **Lot No.:** A0221395

S13214
↓
S13218
AC
7/10/25

**Description :** Benzoic Acid Mix

Benzoic Acid 2000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** January 31, 2029 **Storage:** 10°C or colder
**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 2,002.2 µg/mL | +/- 60.5426 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

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**Catalog No. :** 582978 **Lot No.:** A0228192

513229 → 513238 RC/ 8/1/25

**Description :** Custom Calibration Standard - C8

Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** July 31, 2028 **Storage:** 0°C or colder
**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | N-Nitrosodimethylamine | 62-75-9 | S241226RSR | 99% | 2,000.0 µg/mL | +/- 35.7537 |
| 2 | Aniline | 62-53-3 | X22F726 | 99% | 2,002.5 µg/mL | +/- 35.7984 |
| 3 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 2,005.0 µg/mL | +/- 35.8431 |
| 4 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 2,005.0 µg/mL | +/- 35.8431 |
| 5 | Benzyl alcohol | 100-51-6 | 094986W07G | 99% | 2,015.0 µg/mL | +/- 36.0218 |
| 6 | 1,2-Dichlorobenzene | 95-50-1 | SHBR4446 | 99% | 2,015.0 µg/mL | +/- 36.0218 |
| 7 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBR1701 | 99% | 2,020.0 µg/mL | +/- 36.1112 |
| 8 | Azobenzene | 103-33-3 | BCCL3292 | 99% | 2,005.0 µg/mL | +/- 35.8431 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

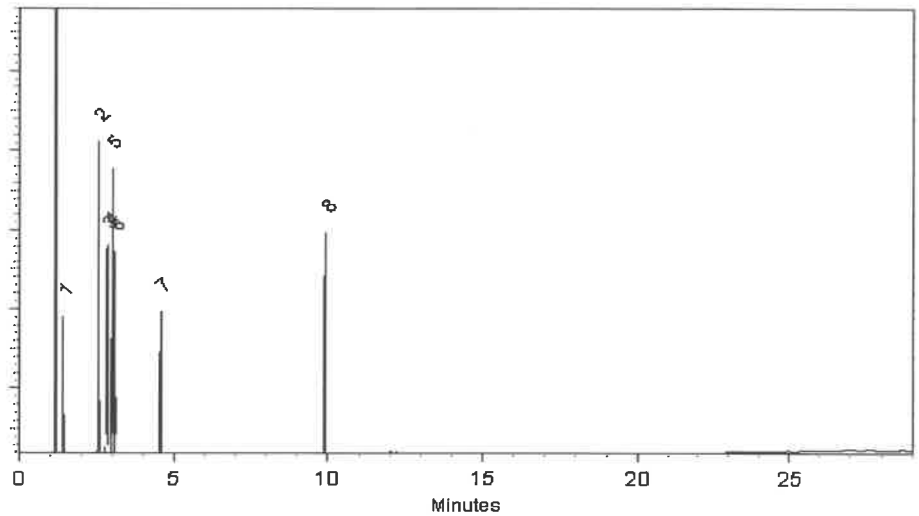
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl

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| | | | | |
|---|---|---|---|---|
| **Wilner Torres - Operation Tech I** | **Date Mixed:** | 27-Jul-2025 | **Balance Serial #** | B345965662 |
| **Jennifer Pollino - Operations Tech III - ARM QC** | **Date Passed:** | 30-Jul-2025 | REVIEWED | |

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**Catalog No. :** 555223 **Lot No.:** A0228451

S13239 ↓ S13268 RC 08/06/25

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S250226RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,007.0 µg/mL | +/- 23.1176 |
| 3 | Benzidine | 92-87-5 | S250227ECS | 99% | 1,003.0 µg/mL | +/- 23.0258 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,003.0 µg/mL | +/- 23.0258 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**
*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0228451

S13239 → S13268 RC 08/06/25

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S250226RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,007.0 µg/mL | +/- 23.1176 |
| 3 | Benzidine | 92-87-5 | S250227ECS | 99% | 1,003.0 µg/mL | +/- 23.0258 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,003.0 µg/mL | +/- 23.0258 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

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**Catalog No. :** 555223 **Lot No.:** A0228451

S13239
↓
S13268

RC
08/06/25

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S250226RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,007.0 µg/mL | +/- 23.1176 |
| 3 | Benzidine | 92-87-5 | S250227ECS | 99% | 1,003.0 µg/mL | +/- 23.0258 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,003.0 µg/mL | +/- 23.0258 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Tom Suckar - Mix Technician

**Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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**Catalog No. :** 555223 **Lot No.:** A0228451

S13239 ↓ S13268 RC 08/06/25

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S250226RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,007.0 µg/mL | +/- 23.1176 |
| 3 | Benzidine | 92-87-5 | S250227ECS | 99% | 1,003.0 µg/mL | +/- 23.0258 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,003.0 µg/mL | +/- 23.0258 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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**Catalog No. :** 555223 **Lot No.:** A0228451

S13239 ↓ S13268 RC 08/06/25

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL
**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder
**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S250226RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,007.0 µg/mL | +/- 23.1176 |
| 3 | Benzidine | 92-87-5 | S250227ECS | 99% | 1,003.0 µg/mL | +/- 23.0258 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,003.0 µg/mL | +/- 23.0258 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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**Catalog No. :** 555223 **Lot No.:** A0228451

S13239 ↓ S13268 RC 08/06/25

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S250226RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,007.0 µg/mL | +/- 23.1176 |
| 3 | Benzidine | 92-87-5 | S250227ECS | 99% | 1,003.0 µg/mL | +/- 23.0258 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,003.0 µg/mL | +/- 23.0258 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

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**Catalog No. :** 555224 **Lot No.:** A0228494

513269 ↓ 513298 RC1 08/06/25

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,002.0 µg/mL | +/- 29.453715 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 3 | Benzaldehyde | 100-52-7 | RD250319RSR | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 4 | Benzoic acid | 65-85-0 | MKCX1578 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,002.0 µg/mL | +/- 29.453715 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Laith Clemente - Operations Technician I **Date Mixed:** 04-Aug-2025 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 555869 **Lot No.:** A0201702

**Description :** Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

513148
↓
513157

RC
11/13/23

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99% | 25,244.0 µg/mL | +/- 450.6896 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Brittany Federinko - Operations Tech I

**Date Mixed:** 05-Sep-2023 **Balance:** B707717271

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# SHIPPING DOCUMENTS

**Alliance** TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q3279
COC Number 2047918

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: G Environmental
ADDRESS: 8 Carriage
CITY Succasunna STATE NJ ZIP:
ATTENTION:
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: Ann
PROJECT NO.: LOCATION:
PROJECT MANAGER: GV
e-mail:
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: G Environmental PO#:
ADDRESS: 8 Carriage
CITY Succasunna STATE: NJ ZIP: 07876
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) ______ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: ______ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other NJ Dep
- ☒ EDD FORMAT excel pdf

## ANALYSIS

1. 
2. TCL VOC+15
3. TCL BN+15 (No phenols) (No SIMs)
4. 
5. 
6. 
7. 
8. 
9. 

## PRESERVATIVES / COMMENTS

← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | COMP | GRAB | DATE | TIME | # OF BOTTLES | 1 | 2 (HCl) | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | MW4 | GW | | X | 10/1/25 | 1350 | 4 | | X | X | | | | | | | |
| 2. | MW5 | GW | | X | 10/1/25 | 1430 | 2 | | X | X | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. [signature] | 10/2/25 1540 | 1. [signature] |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
Comments: LR Cont #1

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO



WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
| --- | --- |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255425 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | TX-C25-00189 |
| | |
| Virginia | 460312 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

| | | | | | |
|---|---|---|---|---|---|
| **Order ID :** | Q3274 GENV01 | **Order Date :** | 10/2/2025 3:37:00 PM | **Project Mgr :** | |
| **Client Name :** | G Environmental | **Project Name :** | ANN | **Report Type :** | NJ Reduced |
| **Client Contact :** | Gary Landis | **Receive DateTime :** | 10/2/2025 3:40:00 PM | **EDD Type :** | NJ HAZSITE |
| **Invoice Name :** | G Environmental | **Purchase Order :** | | **Hard Copy Date :** | |
| **Invoice Contact :** | Gary Landis | | | **Date Signoff :** | |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| Q3274-01 | MW4 | Water | 10/01/2025 | 13:50 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q3274-02 | MW5 | Water | 10/01/2025 | 14:30 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |

**Relinguished By :** 
**Date / Time :** 10/2/25 1620

**Received By :** Sam
**Date / Time :** 10/03/25 8:10 Ref#5

**Storage Area :** VOA Refridgerator Room